SONY.

TRINITRON. COLOR VIDEO MONITOR

BVM-1201

OPERATION AND MAINTENANCE MANUAL 3rd Edition
Serial No. 15, 186 and later

SONY

TRINITRON® COLOR VIDEO MONITOR BVM-1201



Chassis No. SCC-210C-A

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK

NOTHE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CAUTION!!

DO NOT USE THE EXTERNAL DEGAUSSER TO DEMAGNETIZE THE SCREEN.
BE SURE TO USE THE DEGAUSS SWITCH ON THE FRONT PANEL.

ATTENTION AU COMPOSANT AYANT RAPPORT A LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE À SUR LES DIAGRAMMES SCHÉMA-TIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

ATTENTION!!

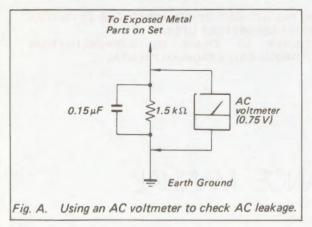
NE PAS UTILISER DE DÉMAGNÉTISEUR EXTÉRITUR POUR DÉMAGNÉTISER L'ÉCRAN. UTILISER LA TOUCH DE DÉMAGNÉTISATION (DEGAUSS) SUR LE PANNEAU FRONTAL.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
 Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

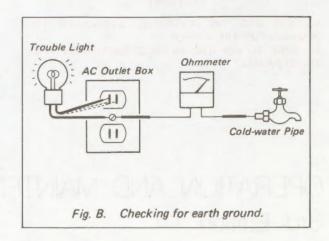


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SECTION 1 OPERATION

1-1. FEATURES

- The BVM-1201 uses the finer picture tube whose resolution is approximately one and half times as high as that of our conventional picture tube.
- The BVM-1201 is equipped with the composite video A, B and the R.G.B inputs, which are selected with the INPUT select switch.
- An internal or an external synchronization is available by switching the SYNC select switch.
 Furthermore, if a composite sync signal is contained within the G-channel input signal, the BVM-1201 can be operated with the internal sync.
- The BVM-1201 employs two color modes, AUTO and B/W.
 In the AUTO mode, color or B/W mode is automatically selected by detecting the color burst presence.
 In the B/W mode, chroma channel is deactivated and the picture is always displayed in B/W mode.
- The synchronizing signal can be displayed on the screen. When the H DELAY switch is turned on, the horizontal sync is displayed in left approximately one-fourth of screen. When the V DELAY switch is turned on, the vertical sync is displayed near the center of screen, expanded on the screen by approximately 3 times.
 If both the H and V DELAY switches are activated, the pulse cross display is shown on the screen. At this time, vertical sync
- The AFC switch is provided to select the horizontal AFC time constant, FAST or SLOW. The SLOW mode is used to monitor the jitter from the VTR.

expansion is cancelled by activating the UNDERSCAN switch.

- The tally lamp which consists of seven LED segments displays the figure from 0 to 9.
 Furthermore, the tally lamp can be turned on by remote control with the rear TALLY-REMOTE connector short-circuited.
- The left front panel can be pulled out. On this panel, the linearity, convergence and other controls are located for easier adjustments.
- Overdrive protection circuit is provided to protect the picture tube from damage caused by the troubles such as in the deflection system.
- If the composite video or composite sync signal is applied to the VIDEO A (or B), or EXT SYNC connectors respectively, the crosshatch pattern, synchronized to the signal, can be displayed on the screen by setting the CROSS HATCH switch, located on the panel pulled out, to ON.
- The arms and the slide rails can be attached to the BVM-1201 left and right sides. These attachments enable the BVM-1201 to be mounted in an EIA standard 19-inch rack.

1-2. SPECIFICATIONS

System 525 lines per picture, 60 fields per

second interlaced,

NTSC

Power consumption Typical: 126 watts

Maximum: 150 watts

Line voltage The line voltage is switchable between

100, 120, 220, 240 volts. Each line voltage within ±10%

Inputs performance

Connectors

BNCs

R.G.B. inputs

0.714 Vp-p non-composite or 1 Vp-p composite video signal ± 6 dB positive,

loop through, high impedance.

EXT SYNC inputs

4 Vp-p ±6 dB negative, loop through,

high impedance.

Return loss At least 46 dB to 5 MHz with 75

Ohm termination. (not internally

terminated)

Maximum safe input DC ±5 volts

Hum rejection Hum is at least 50 dB down and

maximum hum is less than 4 Vrms, where hum is applied to the monitor

in floating ground mode.

RGB performance

Differential gain Within 2% for a luminance from zero

to 20 FL

Differential phase Within 2 degrees for a luminance from

zero to 20 FL

Frequency response 100 Hz to 8 MHz ±1 dB

DC restoration Back porch type

Back porch level within 1% of peak luminance from 10% to 90% APL,

Synchronization

AFC Slow Weighting factor is more than 5 from

2 Hz to 100 Hz.

Fast Weighting factor is less than

1 to 2 Hz 2 to 10 Hz 3 to 500 Hz 4 to 10 kHz

Line pull range/

Line hold range More than ±500 Hz at fast time

constant

Vertical retrace time

Normal

Within 1 msec.

Underscan

Within 0.8 msec.

Horizontal retrace time

Within 10 micro-sec.

Height

182 mm

Width

239 mm

Underscan

Approximately 10% reduction

Linearity

Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the

picture height

Color temperature

6500 degrees K, adjustable to

other standards

Nominal chromaticity co-ordinates

| | 330-VB22 | | M30JBC20X | |
|-------|----------|------|-----------|-------|
| | x | У | х | У |
| Red | 0.635 | 0.33 | 0.630 | 0.340 |
| Green | 0.29 | 0.60 | 0.310 | 0.595 |
| Blue | 0.15 | 0.06 | 0.155 | 0.070 |

Convergence error

Less than ±1 mm within the central

Outside of the central area, less than

±2 mm

Calibrated contrast

20 FL at peak white of standard

1 Vp-p signal.

Raster size stability

Less than 1% picture height, zero to 100 APL (Average Picture Level)

at 20 FL peak luminance

Scan delay

Horizontal delay

Approximately 1/4 line.

Vertical delay

Approximately one half field, vertical scan is expanded unless underscan is

activated.

Resolution

Minimum, 600 TV lines center at

20 FL luminance

Environment

Operating ambient

temperature

Zero to +40 degrees C

Satisfied specification

ambient temperature

20 to 30 degrees C

Humidity

Zero to 90% Non-condensing

Altitude

10,000 feet

General

Picture tube protection

EHT (Extremely High Tension) is protected in the event of scan failure.

Warm up

30 minutes to meet specification

Heater voltage

Regulated DC

Anode voltage

Properly adjusted HV 20kV at

zero beam current

Note: There are two kinds of picture tube used for the following serial numbered units.

> Serial No. up to 1,5000: 330-VB22 Serial No. 1,5001 and later: M30JBC20X

Physical characteristics

| Dimensions | | Cabinet | Rackmount |
|------------|--------------|---------|-----------|
| | Height | 276 mm | 266 mm |
| | Width | 424 mm | 480 mm |
| | Depth | 454 mm | 454 mm |
| | (without arr | ms) | |
| Weight | Net weight | 26 kg | 27.5 kg |

Notes: • When the AC power cord and the remote terminal are used, depth of dimension is 545 mm.

The BVM-1201 has the arms for rack mounting.

It is possible to remove the bottom feet from the cabinet when rack mounting.

For details of the dimensions, refer to "1-6. RACK MOUNTING".

NTSC performance

Luminance channel

Differential gain

Within 2% for a luminance from zero

to 20 FL

Differential phase

Within 2 degrees for a luminance

from zero to 20 FL

Frequency response

Monochrome mode.

100 Hz to 6.5 MHz ±1 dB. (aperture correction at zero)

Color mode

Notch filter removes frequency in

3.58 MHz region.

Chrominance channel

Demodulation axis

R-Y, B-Y

1.3 MHz equiband

Bandpass

Subcarrier

regeneration

±1 degree (standard input signal)

Hue range

More than ±15 degrees

(standard input signal)

Color range

Preset at zero dB More than +6 dB

Chrominance/luminance

Time error

Less than 40 nsec

Gain error

Less than 5%

Aperture correction

A continuously adjustable front panel control provides up to 8 dB

boost at 4.5 MHz

DC restoration

Back porch type

Back porch level within 1% of peak luminance from 10% to 90% APL.

1-3. VOLTAGE SELECTION

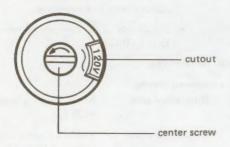
The BVM-1201 can be operated on ac power line voltage of either $100\ V,\ 120\ V,\ 220\ V,\ or\ 240\ V,\ by$ resetting the Voltage Selector located inside the cabinet at the right side.

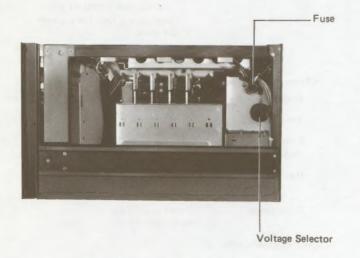
The Voltage Selector can be reset as follows. Before proceeding, be sure that the AC power cord is disconnected from the ac outlet.

Remove the center screw by turning it counterclockwise with a screwdriver. Then pull out the Voltage Selector and reinsert it so that the proper voltage figure appears at the cutout. Finally fasten the original center screw.

 Use the 3.15 A fuse for 100 V or 120 V setting, and 1.6 A fuse for 220 V or 240 V setting.

Voltage Selector



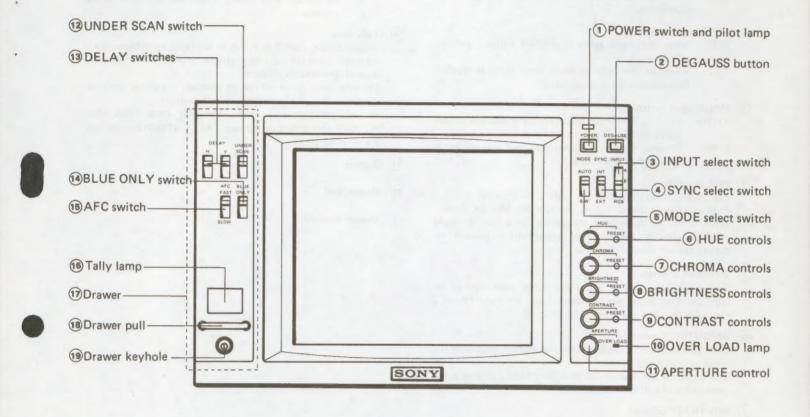


1-4. INSTALLATION INSTRUCTIONS

- Install the BVM-1201 in a location which is dry and well ventilated.
- Avoid installation in a room with a high temperature or near a heat source.
- Avoid installation in dusty areas or areas which are subjected to vibration.
- Avoid areas where high electric or magnetic fields are to be found.
- Avoid areas where the BVM-1201 will be exposed to direct sunlight, other strong lights or flashes of light.

1-5. OPERATION CONTROLS

1-5-1. Front panel



- 1 POWER switch and pilot lamp
- 2 DEGAUSS button

This button is used to demagnetize the screen. Depress this button for about 10 seconds after the power has been applied.

- (3) INPUT select switch
 - A: For the signal connected to the VIDEO A connectors.
 - B: For the signal connected to the VIDEO B connectors.
 - RGB: For the signals connected to the R, G and B connectors.
- (4) SYNC select switch
 - INT: When composite video is supplied without external sync.
 - EXT: When an external composite sync signal is supplied from an external sync generator.
- (5) MODE select switch
 - AUTO: Color or B/W mode is automatically selected according to the color burst presence or absence.
 - B/W: Chroma channel is deactivated and the picture is displayed in B/W mode.
- 6 HUE controls
 - Left HUE control allows the hue angle to be adjusted.

Fully counterclockwise locked position provides the factory preset level. To fine-adjust the preset level, use the right PRESET control. Further level adjustment is possible by turning the left control clockwise.

(7) CHROMA controls

Left CHROMA control allows the color saturation to be adjusted. The use of the left control and the right PRESET control is the same as the 6 HUE controls.

- (8) BRIGHTNESS controls
 - Left BRIGHTNESS control allows the picture brightness (dc level) to be adjusted.
 - The use of the left control and the right PRESET control is the same as the 6 HUE controls.
- (9) CONTRAST controls

Left CONTRAST control allows the picture contrast to be adjusted. The use of the left control and the right PRESET control is the same as the (6) HUE controls.

10 OVER LOAD lamp

This lamp illuminates to warn the over load when the overdrive protection circuit is in operation.

(1) APERTURE control

This control allows the frequency response to be adjusted. Fully counterclockwise locked position provides the factory preset level.

(12) UNDER SCAN switch

This switch selects the normal scanning or underscanning. Underscanning reduces display size by about 10%. When the V DELAY is activated, this switch cancels the vertical sync expansion.

- 13 DELAY switches
 - H; Picture is shifted horizontally, and the horizontal sync is displayed in left approximately one-fourth of screen. Picture brightness is automatically increased.
 - V: Picture is shifted vertically, and the vertical sync is displayed near the center of screen. Picture is expanded by approximately 3 times, unless the underscan is activated.
 - Picture brightness is automatically increased.
 - Pulse cross picture can be displayed by activating both the H and V switches.

(14) BLUE ONLY switch

This switch turns off the red and green beams to facilitate VTR calibration.

- 15 AFC switch
 - FAST: AFC operation is performed in the fast mode. In this mode, incoming sync timing errors are largely corrected.
 - SLOW: AFC operation is performed in the slow mode, and incoming sync timing errors are displayed in the screen
- 16 Tally lamp

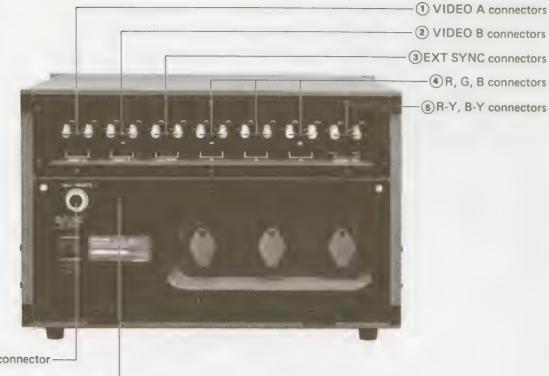
Desired figure, from 0 to 9, can be displayed by the seven LED segments when the tally manual/remote select switch is set to manual (downward) position.

The tally lamp on or off can be remotely controlled when the same switch is set to remote (upward) position.

In the remote-control mode, the tally lamp lights when the No.7 and 8 pins of the rear TALLY-REMOTE connector are short-circuited.

- 17 Drawer
- (18) Drawer pull
- (19) Drawer keyhole

1-5-2. Connector panel



- **6** TALLY-REMOTE connector-
- 7 AC IN connector-
- 1 VIDEO A connectors

2 VIDEO B connectors

BNC connectors, 0.714 Vp-p non-composite or 1 Vp-p composite video ± 6 dB, positive, loop through, high impedance.

- 3 EXT SYNC connectors BNC connectors, 4 Vp-p ±6 dB, negative, loop through, high impedance.
- A. G. B connectors

 BNC connectors, 0.714 Vp-p non-composite or 1 Vp-p composite video ±6 dB, positive, loop through, high impedance.
- BNC connectors, R-Y and B-Y demodulated chroma output.
 This connectors provides high impedance output from the R-Y and B-Y demodulated circuits for driving the Tektronix 602 Display Unit. This output enables the unit to provide vector
- 6 TALLY-REMOTE connector 10P special connector

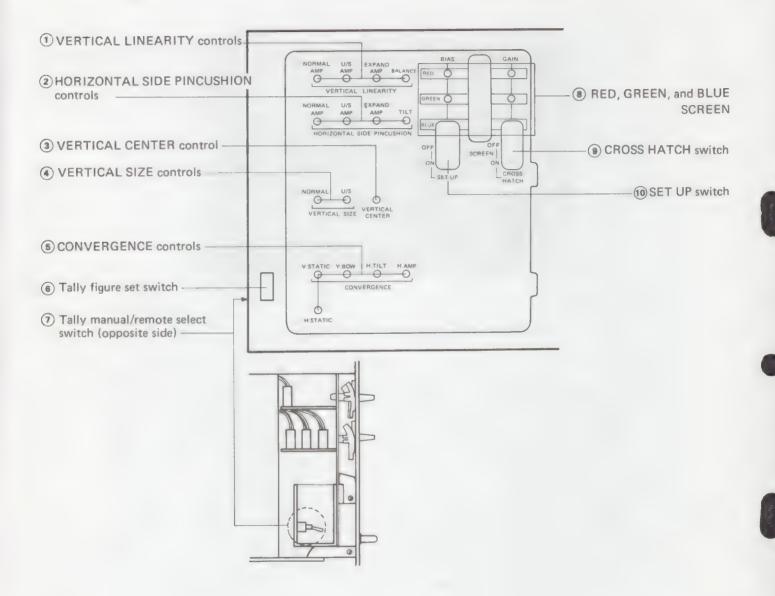
displays.

| Pin No. | Remarks |
|---------|--------------------|
| 1 | REMOTE and VIDEO A |
| 2 | EXT SYNC |
| 3 | CROSS HATCH |
| 4 | VIDEO B |
| 5 | R, G, B |
| 6 | REMOTE GND |
| 7 | TALLY |
| 8 | TALLY |
| 9 | |
| 10 | |

 Relations of operating modes and pin connections with the remote control function are shown on the table below.

| | Operating mode | Pin connection | |
|----|------------------------------------------------------------------------------------------------|----------------|--|
| 1 | VIDEO A with INT SYNC | 1 and 6 | |
| 2 | VIDEO 8 with INT SYNC | 1, 4 and 6 | |
| 3 | R, G, B with INT SYNC (Synchronizing signal must be in- cluded in the G-channel signal.) | 1, 5 and 6 | |
| 4 | VIDEO A with EXT SYNC | | |
| 5 | VIDEO B with EXT SYNC | 1, 2, 4 and 6 | |
| 6 | R, G, B with EXT SYNC | 1, 2, 5 and 6 | |
| 7_ | CROSS HATCH with VIDEO A | 1, 3 and 6 | |
| 8 | CROSS HATCH with VIDEO B | 1, 3, 4 and 6 | |
| 9 | CROSS HATCH with EXT SYNC | 1, 2, 3 and 6 | |

- The operating modes with the remote control function have priority to the modes selected with the front panel Operation Controls.
- 7 AC IN connector
 For an ac power supply.



• The following controls and switches are located inside the drawer.

1 VERTICAL LINEARITY controls

NORMAL AMP U/S AMP

EXPAND AMP

These controls allow the vertical linearity amplifier gains to be adjusted in the normal, underscanned, or expanded pic-

ture respectively.

BALANCE:

This control allows the vertical linearity balance at the top and bottom of screen to be adjusted.

HORIZONTAL SIDE PINCUSHION controls

NORMAL AMP

U/S AMP EXPAND AMP These controls allow the horizontal side pincushion amplifier gains to be adjusted in the normal, underscanned, or expanded

picture respectively.

TILT:

This control allows the trapezoidal-shaped

picture to be corrected.

(3) VERTICAL CENTER control

This control allows the vertical position of the picture to be adjusted.

4 VERTICAL SIZE controls

NORMAL

H. TILT:

U/S:

These controls allow the picture height gains to be adjusted in the normal or underscanned picture respectively.

CONVERGENCE controls

V. STATIC: This control allows the vertical convergence at

the center of screen to be adjusted.

Y. BOW: This control allows the vertical convergence at

the top and bottom of screen to be adjusted.

This control allows the horizontal convergence at the left and right sides of screen to be

adjusted.

H. AMP: This control allows the horizontal convergence

amplifier gains to be adjusted.

H. STATIC: This control allows the horizontal convergence

at the center of screen to be adjusted.

Tally figure set switch

When the tally manual/remote select switch is set to manual (downward) position, desired tally figure display, from 0 to 9, can be selected with this switch.

(7) Tally manual/remote select switch

manual (downward)

position: Desired tally figure, from 0 to 9, can

be displayed.

remote (upward)

BIAS controls:

position: Tally lamp on or off can be remotely

controlled.

8 RED, GREEN, and BLUE SCREEN

Each screen has an ON/OFF switch, BIAS and GAIN controls.

These switches allow the appropriate ON/OFF switches: beam to be turned on or off.

These controls provide screen adjust-

ment for low light color temperature.

GAIN controls: These controls provide screen adjustment for high light color temperature.

(9) CROSS HATCH switch

When this switch is set to ON, the crosshatch pattern is displayed on the screen, provided that a composite video or composite sync signal is supplied to the VIDEO A (or B), or EXT SYNC. connectors respectively.

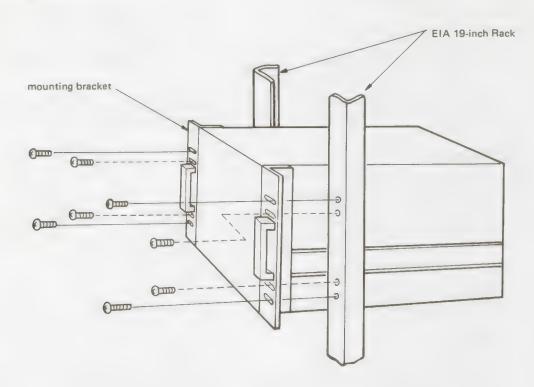
 Make sure that the INPUT select switch is not set to RGB position.

(10) SET UP switch

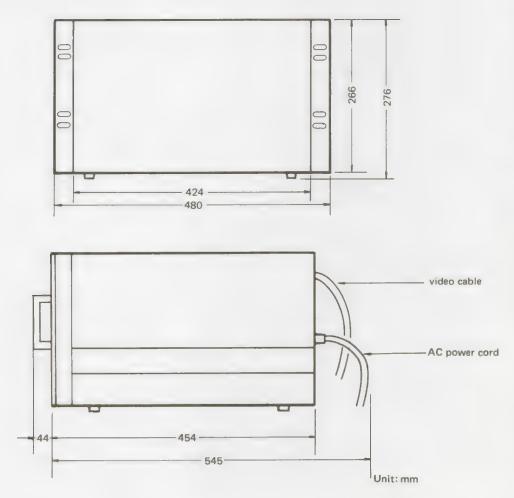
When this switch is set to ON, a horizontal white bar is displayed on the screen for adjusting the low-level white

1-6. RACK MOUNTING

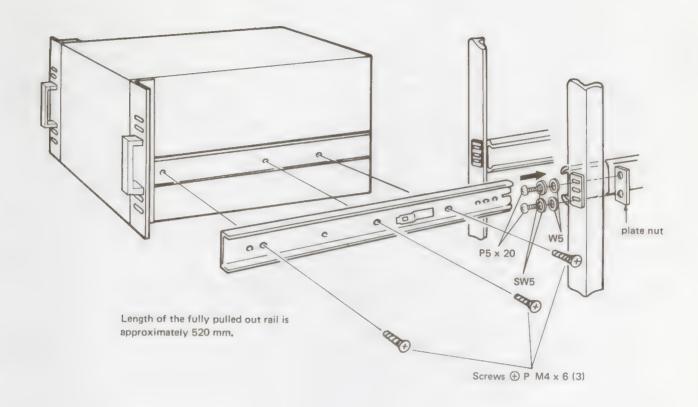
The BVM-1201 can be rack mounted in an EIA standard 19-inch rack as shown in the illustration below. Before mounting, remove the bottom feet (total of 4).

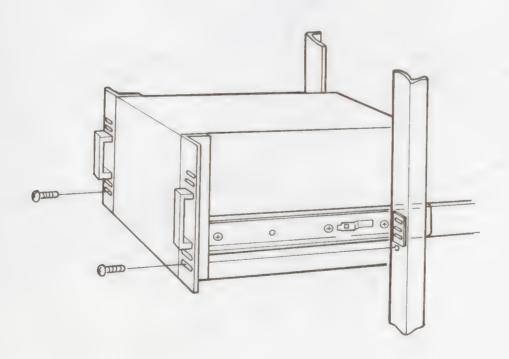


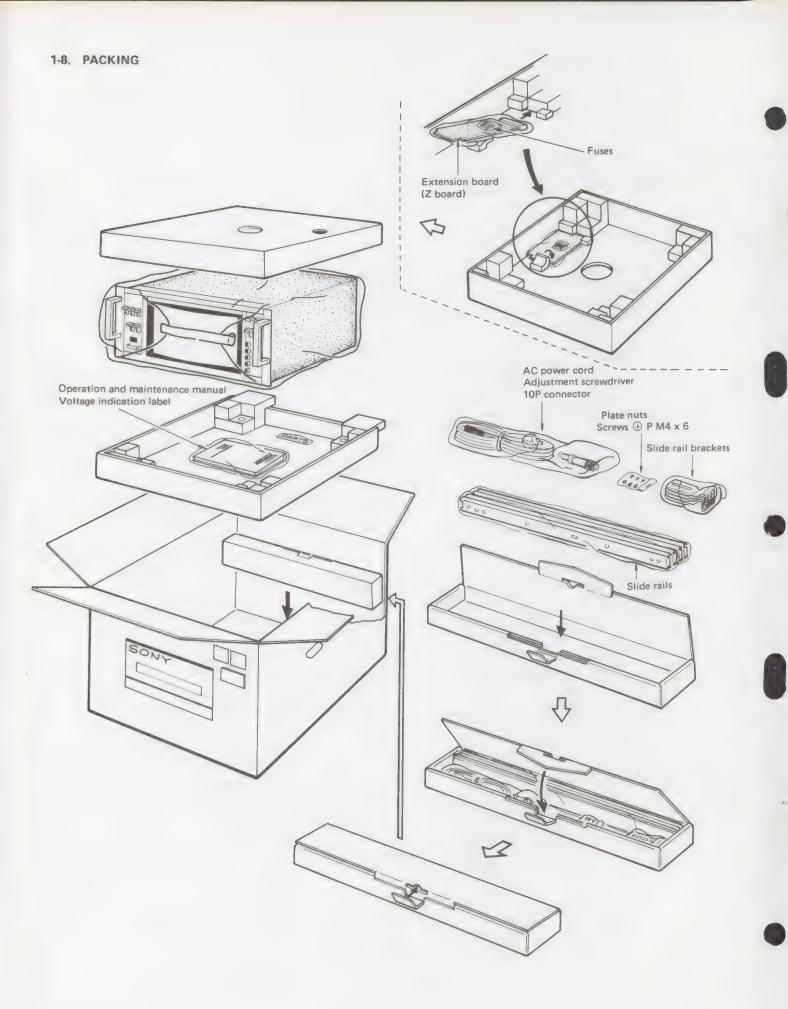
Dimensions



1-7. SLIDE RAIL MOUNTING

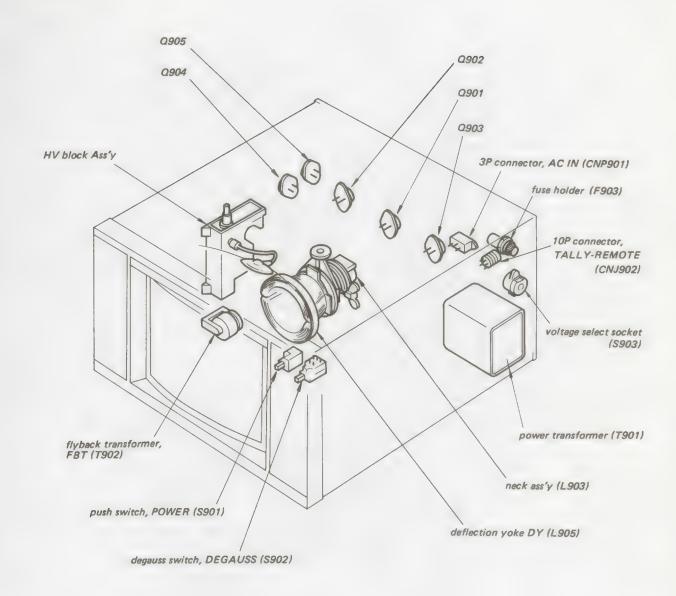




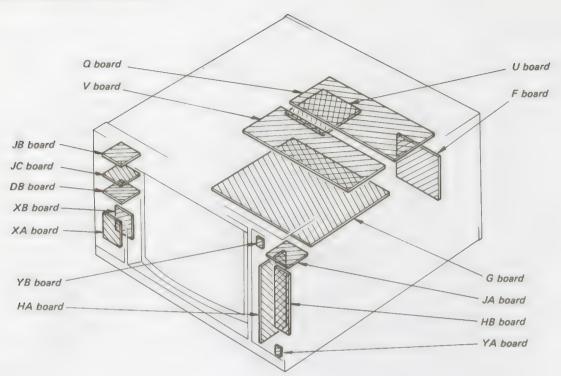


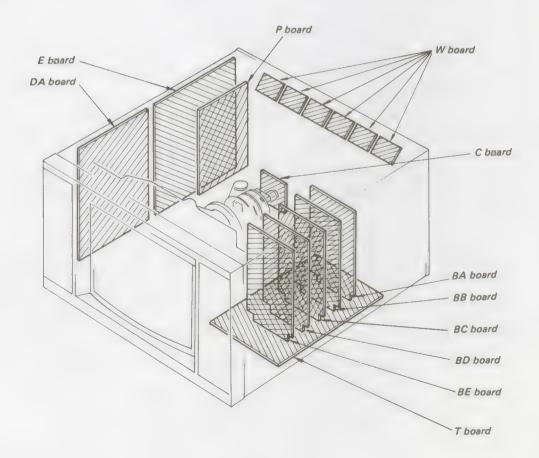
SECTION 2 OUT LINE

2-1. INTERNAL VIEW

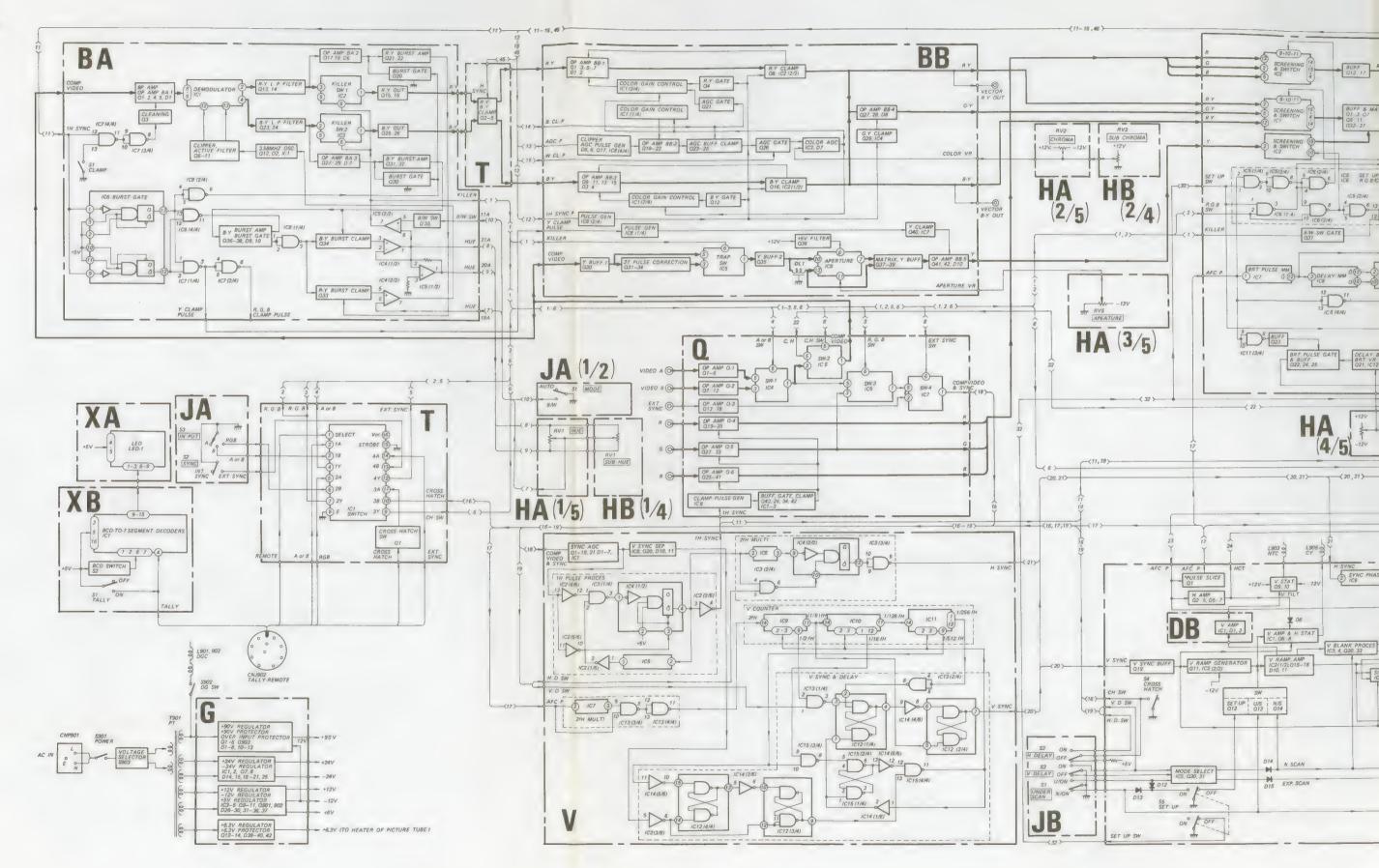


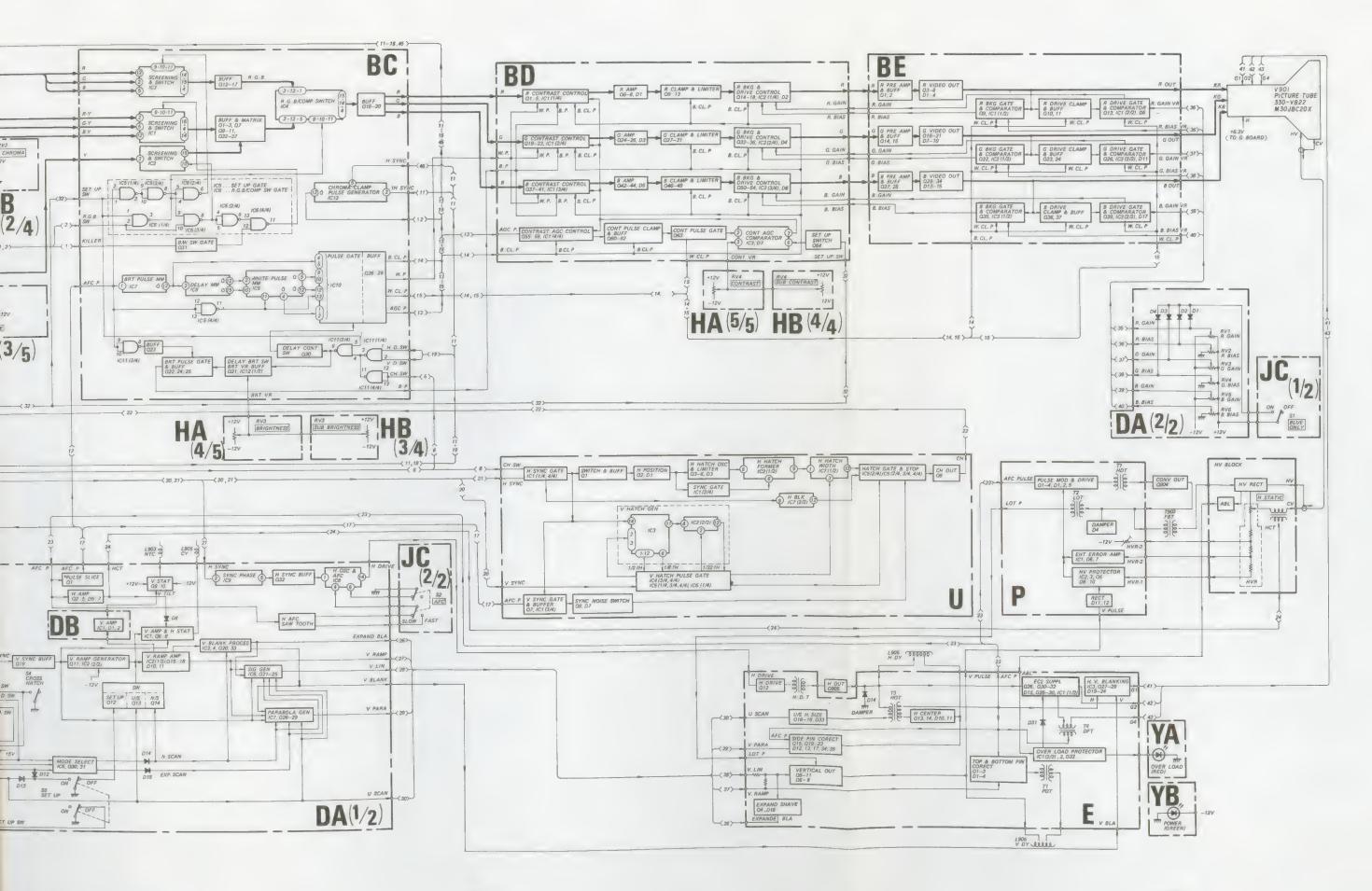
2-2. CIRCUIT BOARDS LOCATION





2-3. BLOCK DIAGRAM





SECTION 3 CIRCUIT DESCRIPTION

3-1. COLOR DECODER (BA BOARD)

The composite video signal applied to the base of Q1 goes through the series resonance circuit consisting of C4 and L1. It is amplified in the OP AMP BA-1 (Q4 and Q5) and the chrominance signal is applied to pins 8 and 9 of demodulator IC1.

3.58 MHz OSC (Oscillator)

The subcarrier oscillator is a crystal controlled OSC constructed with Q12, X-1, and D2. It is controlled by variable reactor diode D2 within a range of ±500 Hz. Q10 and Q11 form a limiter to eliminate the amplitude variation of the 3.58 MHz OSC. L4, C18, C19, R27, and R28 circuit connected to Q10 collector is the bridge T trap construction whose center frequency is 3.58 MHz and it rejects the side bands.

DEMODULATOR

IC1 is a differential type demodulator to which the subcarrier is applied through Q6 and Q9. The B-Y phase is shifted 90° in the active filter circuit formed with Q7 and Q8. The bandwidth of the demodulator output is limited in the low pass filter. The R-Y output is obtained at Q14 and the B-Y output at Q24.

BURST GATE CIRCUIT

The B-Y signal obtained at Q24 is amplified in OP AMP BA-3 (Q27, Q28, Q29). Q30, FET for a burst gate, is normally in a conducting state and no signal appears at the gate of FET Q31. Q30, however, is not conducting only in the burst period and the signal in the burst period appears at the gate. The R-Y signal is processed in the same manner.

BURST GATE GENERATOR

The monostable multivibrator of IC6 generates the burst gate pulse on the basis of the back porch of the sync pulse applied to pin 1. The output from pin 13 of IC6 is level-converted in the NAND circuit of IC8 (4/4) to drive O20 and O30.

BURST CLAMP PULSE GENERATOR

The B-Y burst signal obtained at Q32 is amplified in the operation amplifier consisting of Q36 and Q37 so as to turn on and off burst separator Q38. The burst gate pulse produced in IC6 and the burst signal of Q38 are processed in the AND gate in order to increase immunity against noise. The waveform and the level of the collector output signal of Q38 are adjusted in the NAND circuit of IC8 (1/4) to drive FETs O34 and O33.

AUTOMATIC PHASE CONTROL (APC)

APC controls the 3.58 MHz OSC to detect the R-Y burst signal period. The R-Y output in the burst signal period goes through buffer amplifier Q22 and is clamped for the burst signal period in FET Q33. The voltage charged in C54 drives the operation amplifier at pin 5 of IC4 (2/2). IC4 (2/2) detects the potential difference between pins 5 and 6, amplifies the difference, and applies it to pin 7. The IC4 (2/2) is an active filter and its time constant is determined by R90, C57, and R89. The output from pin 7 of IC4 (2/2) controls variable reacter D2 of the 3.58 MHz OSC to form an APC loop.

HUE CONTROL

The B-Y burst signal obtained at Q32 is clamped by Q34, integrated in the R95 and C60 circuit, and applied to pin 3 of IC4 (1/2). The output impedance of this signal is converted by IC4 (1/2) and the output signal is shifted 180° out of phase by IC5 (1/2). A potentiometer is formed on the HA board on the basis of the voltage of 180° out-of-phase and the one in phase. The output of the potentiometer is applied to pin 6 of IC4 (2/2) via R91 in order to vary the reference for the hue control.

KILLER CIRCUIT

The killer detects the B-Y burst and controls IC2 and IC3 on the BA board and IC1 on the BC board. The output from pin 1 of IC4 (1/2) drives IC5 (2/2), is compared with the reference voltage at pin 5 of IC5 (2/2) and amplified in IC5 (2/2). The output of IC5 (2/2) is used as the killer voltage. Pin 7 of IC5 (2/2) is negative when the burst signal appears and positive when the burst signal does not. The output of IC2 (pin 1) is fed to the color gain control circuit through Q15 and Q16, and the output of IC3 (pin 1) is also fed to the color gain control circuit through Q25 and Q26.

Note: Be sure to set S1 to the position shown by the arrow.

3-2. COLOR GAIN CONTROL AND LUMINANCE AMP (BB BOARD)

COLOR GAIN CONTROL

Color gain control controls the gains of the R-Y and B-Y color difference signals. The pulse produced by a waveform shaping of the horizontal flyback pulse is applied to Q17. Since the pulse height varies in each of the H. delay and the V. delay modes, the pulse is switched by Q17 for a level stabilization in order to drive IC8 (4/4). The IC8 (4/4) output is amplified in Q18 and its gain is controlled in IC1 (4/4). The Q18 output drives Q22 and the Q22 output clamps Q23.

The clamp position is after the back porch of the horizontal flyback pulse. The clamped signal goes through Q24 and Q25 to Q26 where it is gated during the horizontal flyback pulse period. The signal gated at Q26 is converted into dc and phase-inverted in IC3 (1/2) so as to change the dc voltages at pins 3 and 8 of IC1. Since IC1 is an FET used when the drain-source voltage is 0 volt, its resistance can be varied equivalently with the gate voltage. This means that emitter resistance of Q18 varies and consequently the gain of Q18 varies. This loop forms an NF (=Negative Feedback) loop. The gain control can be performed by varying the dc voltage at pin 3 of IC3 (1/2). IC1 controls the gains of the R-Y and the B-Y signals in the same manner.

R-Y, G-Y, AND B-Y AMPS AND CLAMPS

The R-Y signal is applied to the base of Q1 where its gain is controlled and is amplified in the OP AMP BB-1 (Q5 through Q7). The signal from the collector of Q7 is gated in FET Q8 during the horizontal sync period, converted to dc in IC2 (2/2), and controls the base voltage of Q2 so that the voltage at pin 5 of IC2 (2/2) becomes 0 volt during the horizontal sync period of Q7. This circuit operation is also an NF loop operation. The processing of the B-Y signal is the same as that of the R-Y signal.

The R-Y and the B-Y signals are added at a constant ratio, applied to the emitter of Q27, and phase-inverted in operation amplifier of Q27 and Q28. Thus the G-Y signal is obtained. The pin 1 output of IC4 is connected to the base of Q27, so that the circuit forms an NF loop. The NF loop clamps the horizontal sync period to 0 V.

LUMINANCE AMPLIFIER

The composite video signal is applied to the base of Q30. In the black and white mode, it is applied to the video switcher in IC5 from the emitter of Q30. The killer voltage from IC5 (2/2) on the BA board is applied to pin 6 of IC5. In the black and white mode, the signal inputted to pin 3 of IC5 outputs from pin 1 and enters into Q35. DL1 (Delay Line) is connected to the emitter of Q35 and forms an aperture correction circuit. The signal passed through DL1 is applied to pin 12 of IC6. The signal before entering DL1 and the

signal which entered DL1 and was reflected (i.e., the signal passed DL1 twice) are added and applied to pin 10. Only the component to be boosted is produced in IC6 and outputted from its 7 pin. This signal is applied to Q37 and added to the signal which has passed the DL1 and applied to the base of Q38 in the collector of Q37. The resultant signal is applied to the base of Q39.

The signal of Q39 emitter is applied to the OP AMP BB-5 (Q41 and Q42) via DL2. The OP AMP BB-5 output is dc-converted in IC7 (2/2) to control Q40 and the dc-converted signal controls Q41 emitter so that the OP AMP BB-5 output is clamped to 0 volt during the horizontal sync period like the R-Y clamp circuit. It should be noted that the gate pulse applied to Q40 is in phase with the back porch of the horizontal pulse.

3.58 MHz TRAP AND PHASE COMPENSATION

The output signal of Q30 in the color mode is applied to Q31 after its subcarrier is rejected in the bridged T trap consisting of R86, C48, C49, and L1. The R91, L2, C52, Q32, and Q33 circuit is an active filter for the 3.58 MHz phase correction. The signal is applied to pin 3 of IC5 from Q34 and the resultant signal appears at pin 1 of IC5.

3-3. R, G, & B SWITCHERS (BC BOARD)

RGR MODE

The Red, Green, and Blue signals are inputted to pins 12, 2, and 5 of IC3 and outputted from pins 14, 15, and 4 respectively. The Red signal is applied to pin 1 of IC4 via the Q12 and Q13 circuit. The Green signal is fed to pin 13 of IC4 through Q14 and Q15. The Blue signal is supplied, through Q16 and Q17, to pin 3 of IC4.

The decorded color difference signal and the Y signal are cut off by IC1 and IC2 respectively. At this time +5 V bias is applied to each of pins 9, 10, and 11 of IC1 and pin 10 of IC2.

COMPOSITE VIDEO MODE

The decoded color difference signals of R-Y, G-Y, and B-Y are inputted to pins 2, 5, and 12 of IC1 and outputted from pins 15, 4, and 14 respectively.

The R, G, and B signals inputted to IC3 are cut off when the +5 V bias is applied to pins 9 through 11 of IC1.

The Y signal is inputted to pin 2 of IC2 and outputted from pin 15. The R-Y signal, output from pin 15 of IC1, goes through Q1 and Q32 and becomes the ouput of Q35. The Y signal outputted from pin 15 of IC2 goes through Q7 and is matrixed with the R-Y signal, output of Q35, by R29 and R10. The red signal is supplied to pin 2 of IC4 via Q9.

Similarly the G-Y signal is matrixed with the Y signal in R17 and R30, and the B-Y signal is matrixed with in R24 and R31. The Green signal is inputted to pin 12 of IC4 and the Blue signal to pin 5.

R, G, and B SWITCHERS

The R, G, and B signals applied to IC4 are outputted from pins 15, 14, and 4 of IC4 respectively. When 0 volt is applied to pins 9, 10, and 11 of IC4, the composite system R, G, and B signals are outputted and when +5 volts is applied to them, the RGB system signals are outputted.

SCREENING

Screening is performed on the transit signal in IC3 and IC2 during the horizontal blanking period, which is for inserting the pulses for brightness and contrast control. The screening level is set to 7.5 IRE of the input signal by RV2 and RV1.

The pulse which is +5 V during the horizontal blanking period and 0 V in other period is applied to pins 9, 10, and 11 of IC3. The +5 V is also applied to pin 10 of IC2.

Similarly the pulse which is +5 V during the horizontal blanking period is applied to pin 10 of IC2 and the +5 V is applied to pin 9, 10, and 11 of IC3 in the COMP system mode.

PULSE GENERATOR

Various pulses are produced from the wave-shaped horizontal blanking pulse in the monostable multivibrator IC.

The waveform-shaped horizontal blanking pulse is applied to pin 1 of IC7 (1/2) and approx. 0.4 μ S pulse is produced on the basis of the front edge change of the blanking pulse by R63, C19, and IC7 (1/2). The produced pulse appears at pin 4 of IC7 (1/2). The pulse is applied to pin 10 of IC7 (2/2). Approx. 3.3 μ S pulse is produced on the basis of the back edge change of the applied pulse by R64, RV3, C20, and IC7 (2/2), and appears at pin 12 of IC7 (2/2). This pulse is shaped to a positive polarity pulse of approx. 7.5 Vp-p by IC10 (2/4), R65, and R66, and the Q26 output becomes the bright clamp pulse.

Similarly R68, C21, and IC8 (1/2) produce a pulse of approx. $0.4 \mu S$ on the basis of the back edge change of the pulse applied to pin 12 of IC7 (2/2) and the produced pulse appears at pin 4 of IC8. Then R69, C22, and IC8 (2/2) produce a pulse of approx. $0.4 \mu S$ on the basis of the back edge change of the pulse produced in IC7 (2/2) and the resultant pulse appears at pin 2 of IC8 (2/2). R70, RV4, C23, and IC9 (1/2) produce a pulse of approx. $3.3 \mu S$ on the basis of the back edge change of the pulse at pin 2 of IC9 (1/2) and the produced pulse is obtained at pin 4 of IC9 (1/2). This pulse is waveform-shaped in IC10 (1/4) and a positive polarity white clamp pulse of approx. 7.5 Vp-p is obtained as the output from Q28.

R74, C24, and IC9 (2/2) produce a pulse of approx. $4.5 \mu S$ on the basis of the front edge change of the output pulse of pin 15 of IC8 and the pulse appears at pins 5 and 12 of IC (2/2). But the back edge change of this pulse is determined in IC5 (3/4) by the back edge change of the input blanking pulse.

The output from pin 5 of IC9 goes to IC10 (3/4) for a waveform shaping and becomes a negative polarity white pulse of approx. 4.5 Vp-p as the Q27 output. The pin 12 output of IC9 (2/2) and the IC5 (4/4) output are AND-gated and wave-shapted in IC10 (4/4) in order to be a negative polarity pulse of approx. 4 μ S, 1 Vp-p for the contrast control on the basis of the front edge change of the input blanking pulse as the Q29 output.

The input blanking pulse goes through IC11 (3/4) and Q23, gated in Q22 only during the horizontal blanking period, and becomes the bright pulse after it passes through Q24 and Q25. The level of this pulse is equal to the one of the pin 1 output of IC12 and based on the dc voltage at pin 3 of IC12 (1/2).

Pin 3 of IC12 (1/2) is connected to RV3 on the HA board and RV3 on the HB board via R93 and the dc voltages of these variable resistors control the pulse level of Q25 output.

3-4. VIDEO OUT (BD and BE BOARDS)

CONTRAST CONTROL (BD BOARD)

The wave-shaped horizontal flyback pulse is applied to the base of Q55. Variable resistance element IC1 (4/4) is used as the emitter resistor of Q55 and the gain of the amplifier Q55 is controlled by varying the resistance value of IC1 (4/4).

The output of Q55 goes to Q59 and to Q60 where it is clamped during the horizontal flyback pulse period. The clamped signal goes through Q61 and Q62, is gated in Q63 immediately after the horizontal flyback pulse. The gating signal is converted to dc in IC3 (1/2), goes through IC3 (2/2), and applied to pin 8 of IC1 (4/4), IC1 (4/4) controls the Q55 gain. The dc output from IC3 (2/2) is connected to pin 8 of IC1 (1/4), pin 12 of IC1 (2/4), and pin 3 of IC1 (3/4), which enables the simultaneous gain controls of the R, G and B signals inputted to the bases of the amplifiers Q1, Q19 and Q37 respectively.

The dc output of IC3 (2/2) varies depending on the dc voltage at pin 3 of IC3 (1/2) and can be controlled with RV4 (CONTRAST) on the HA board and RV4 (SUBCONTRAST) on the HB board.

WHITE PEAK LIMITER (BD BOARD)

The bright pulse and white pulse obtained by the waveform-shaping of the horizontal flyback pulse are added to the gain-controlled Red output of Q1 via R14 and R15. The resultant signal goes through Q5 and operation amplifier Q6, Q7, and Q8, and clamped in Q9. The clamp is performed at the bright pulse period. The clamped signal goes to the limiter circuit consisting of Q11 and Q12 via Q10, the limiter circuit cuts of the video signal above the reference level. The above operation is applied on the Green signal of Q19 and the Blue signal of Q37.

SET-UP SWITCH (BD BOARD)

The Q64 base is connected to ground by S5 (SET-UP switch) on the DA board in the SET-UP mode, and the output dc voltage of IC3 (2/2) is increased and the amplification gains of Q1, Q19, and Q37 is minimized. Thus each of the R, G, and B outputs is stopped.

R,G, AND B BACKGROUND CONTROL AND VIDEO OUTPUT AMP (BD AND BE BOARDS)

The Red signal of the output from the limiter circuit consisting of Q11 and Q12 on the BD board enters the base of the amplifier Q14 via Q13. The gain of the Q14 output is controlled in IC2 (1/4) and its dc level is controlled in Q15. The output is supplied to Q18, amplified in Q1 on the BE board, and enters the cascade NF amplifier Q3, Q4, Q5, and Q6 via Q2 on the BE board.

The output from Q6 on the BE board goes, through the BUFFER amplifier Q7 and Q8, to the R cathode of the picture tube.

The output signal from Q7 and Q8 is divided by R21 and R22 and gated in Q9 during the bright pulse period. The gated voltage is converted to a dc voltage in IC1 (1/2) and applied to the base of Q15 on the BD board. These circuits form an NF loop. The bright pulse dc level of the output from Q7 and Q8 is controlled by the dc voltage at pin 5 of IC1 (1/2). The Green signal, output from Q20 and Q21 on the BE board and the Blue signal output from Q33 and Q34 are processed in the same manner as in the Red signal.

R,G, AND B DRIVE CONTROL (BD AND BE BOARDS)

The Red signal output from Q7 and Q8 on the BE board is voltage-divided by R31 and R32. It goes through Q10 and is clamped in Q11 during the bright pulse period. The white pulse period of the clamped signal is gated in Q13. The gated voltage is converted to a dc voltage in the R39, C15, and IC1 (2/2) circuit, and applied to variable resistance element IC2 (1/4) on the BD board, the resistance of IC2 (1/4) determines the amplification gain of O14

The above circuit forms the NF loop like the background control circuit. The white pulse level of the output signal from Q7 and Q8 on the BE board is controlled by the dc voltage at pin 3 of IC1 and the signal level is also controlled at the same time. The processings of the Green signal output from Q20 and Q21 on the BE board and the Blue signal output from Q33 and Q34 are the same with that of the red signal.

3-5. VERTICAL DEFLECTION AND AFC (DA BOARD)

VERTICAL RAMP WAVE GENERATOR

The vertical trigger pulse is applied to the emitter of Q19 from pin 5 of the connector D-12. The signal whose waveform was shaped in Q19 is supplied to the base of Q11. Q11 and IC2 (2/2) form a ramp generator. When the vertical trigger pulse is not applied to the Q11 base, -12 V power is applied through R42 to the integrator consisting of R42, C25, and IC2 (2/2) and the power is integrated. When the vertical trigger pulse is applied to the base of Q11, C25 is shorted through R43 and the voltages at pin 6 and pin 7 of IC2 (2/2) become the same. The voltage at pin 6 is equal to the one at pin 5, i.e., 0 V. Then the sawtooth wave whose trigger period is 0 V is obtained at pin 7 of IC2 (2/2) as the vertical ramp.

VERTICAL AMPLITUDE SWITCH

The ramp signal obtained at pin 7 of IC2 (2/2) varies the V. size by switching Q12 in the SET-UP mode, Q13 in the UNDERSCAN mode, or Q14 in the NORMAL SCAN mode. The output from IC2 (2/2) drives IC2 (1/2) whose output from pin 5 of connector D-8 drives the vertical out circuit on the E board.

VERTICAL SINE WAVE GENERATOR

The output from pin 1 of IC2 (1/2) is integrated in R93 and C40 to be a parabolic waveform. It is amplified in IC6 (1/2) and becomes a sine wave after passing through integrator consisting of R103, C45, and IC6 (2/2). The sine wave is supplied to the vertical out circuit on the E board from pin 6 of connector D-8 for linear correction. Q22, Q23, and Q24 are for varying the gain of IC6 (1/2) in the NORMAL, UNDERSCAN, and EXPAND SCAN modes respectively.

VERTICAL BLANKING

The pulse width of the vertical blanking is changed in each of the NORMAL, UNDERSCAN, and EXPAND modes. In the NORMAL mode, the vertical trigger pulse of D-12 drives Q20 and then drives the monostable multivibrator in IC4. The pulse width of this monostable multivibrator is longer a little than the one of the vertical trigger oulse. The pin 3 output of IC4 is supplied to the blanking circuit on the E board from pin 3 of connector D-8 and drives Q21 to clamp pin 3 input of IC6 (1/2) which is the parabola generator for the vertical sine wave generator, Q21 makes pin 3 zero V during the vertical trigger period. The vertical trigger pulse gates Q25 and clamps the vertical trigger period of the vertical sine wave generator. In the UNDERSCAN mode, the operation is identical to that in the NORMAL SCAN mode but Q33 is in the non-conductive state and the output pulse width of IC4 is narrow. The pulse width of IC3 is determined by R71 and C34, and the one of IC4 by R78, C36, and C71.

Since the IC2 (1/2) output is large in the EXPAND mode, the output is clipped by the voltage determined in the bases of Q15 and Q16 through D10 and D11. When Q15 and Q16 conduct, the output is matrixed in the Q18 base and the signal switched by Q18 drives IC3. IC3 detects the negative going and acts as a monostable multivibrator feeding the extra pulse generated in the EXPAND mode through R75 for canceling the pulse with the vertical trigger pulse, the output of IC3 drives IC4, and IC4 produces the blanking pulse.

PARABOLA WAVE FOR HORIZONTAL SIDE PINCUSHION

The parabola waveshape signal for the side pincushion correction is produced as follow. The sawtooth wave of IC2 (1/2) is integrated by C46 and R109. The signal goes to IC7 (2/2) and is phase-inverted in IC7 (1/2). The parabola waveshape signal drives the pincushion correction circuit from pin 2 of connector D-8.

VERTICAL PARABOLA WAVE FOR Y BOW CORRECTION

The output from IC2 (1/2) is integrated by IC1 (2/2), R23, and C21 to be the parabola wave. The IC1 (2/2) output goes through IC1 (1/2), Q7, and Q8 to the convergence yoke (CY) and returns to R30. In the dc loop, the pin 2 of IC1 (1/2) is connected to similar loop of the signal and this loop returns to R30. The circuit forms the NF loop. The signal corrects the Y bow convergence and the dc loop acts as follow. The horizontal parabola wave supplied from connector D-5 to the horizontal convergence transforemer (HCT) in the high voltage block is rectified in D8. The bias voltage of IC1 (1/2) is varied with the voltage in order to vary the current flow in the convergence yoke for preventing a convergence loose at the center on the picture tube.

PARABOLA WAVE FOR HORIZONTAL CONVERGENCE

The horizontal flyback pulse from pin 4 of connector D-7 is integrated in L1 and C15 and becomes the parabola wave. Similarly the sawtooth wave is produced in L2 and C14. The produced sawtooth wave and the parabola wave are mixed together in the base of Q3. The positive or negative sawtooth wave is applied to the Q3 base depending on the position of adjustable resistor RV8. The Q3 output is amplified in push-pull amplifier Q4 and Q5 and outputted from connector D-5 in order to drive the horizontal convergence transformer (HCT) in the HV block.

H. AFC and PICTURE PHASE CIRCUIT

The H. sync signal from pin 6 of connector D-12 drives pin 2 of IC9. IC9 is a monostable multivibrator making the thin pulse determined by R145, RV26, and C66 on the basis of the front edge change of the H. sync. The pin 13 output of IC9 drives pin 9 of IC9 and a pulse of 5 µS width is produced by RV25, R144, and C65. This pulse drives the emitter of Q32 in order to drive pin 1 of IC8 for H. AFC. The H. pulse phase to AFC can be varied by adjusting resistor RV26 and the deflection phase varies. Thus the picture phase on the picture tube can be adjusted. Regarding the H. AFC, the horizontal flyback pulse signal is applied to the L4, C63, R130 circuit and to the L3, C54, R129 circuit. The signals from these two circuits go through connector D-13 and selected by the AFC switch. The selected one is applied to pin 4 of IC8. The amplitude of the signal passed through the L4, C63, R130 circuit is smaller than that of the signal passed through the L3, C54, R129 circuit. Consequently the loop gain decreases and AFC becomes slow. The time constant of H. AFC is varied by connecting C58 and C59 in parallel in order to vary the frequency characteristic.

SCANNING SWITCH

The mode switching of NORMAL, UNDER, and EXPAND SCANNING is performed as follows. The voltage selected with the switch connected to connector D-11 is applied to the NAND circuit in IC5 and the logic circuit consisting of Q30 and Q31 so as to control transistors Q27, Q28, Q29, Q22, Q23, and Q24. Thus the scanning size can be controlled.

3-6. Y. TILT AND V. TILT CORRECTION CIRCUITS (DB BOARD)

The V cycle sawtooth wave current flows into the CY coil for the correction of the vertical convergence. The correction value of the vertical convergence is changed by turning the RV4 and the vertical convergence of the top and bottom of the picture tube is corrected by flowing the V cycle sawtooth wave current into the neck twist coil (N.T.C.). This correction value is changed by turning the RV 1 through 3.

3-7. HORIZONTAL AND VERTICAL DEFLECTION OUTPUT CIRCUIT (E BOARD)

HORIZONTAL DEFLECTION CIRCUIT

The horizontal deflection switching signal synchronized with the H. sync of the input signal is connected to pin 1 of connector E-3 from the DA board.

This switching signal enters the base of horizontal deflection drive transistor Q12 and its output is connected to the base of the H. OUT transistor on the DEF heat sink from T2 HDT (horizontal drive transformer).

The collector of the H. OUT transistor is connected to the horizontal deflection yoke and T3, HOT (Horizontal Output Transformer). The HOT supplies the dc power supply to the H. OUT transistor. One of the secondary winding of the HOT produces the horizontal center adjusting power supply in D10 and D11 and the horizontal center is adjusted in the Q13, Q14, and RV4 circuit. The other winding is the AFC pulse winding and connected to the DA board via connector E-3. Q16 through Q18 vary the supply voltage to the HOT and lower it approx. 10% in the UNDERSCAN mode.

SIDE PINCUSHION DISTORTION CORRECTION CIRCUIT

The parabola signal with V cycle comes from pin 2 of connector D-8 to pin 2 of connector E-2. The parabola signal and the AFC pulse from the HOT T3 are supplied to the P.W.M. (Pulse width Modulator) circuit arranged by Q19 through Q22 and the horizontal sync signal modulated with the V cycle parabola signal is applied to the base of O23.

The current flow in the horizontal deflection yoke goes through the L6 horizontal linearity coil and S-shape correction capacitors C24 and C25, and flows through the L7 horizontal pincushion coil. The switch consisting of D13 and Q15 is connected in parallel to L7. The output from Q23 is connected to the gate of Q15. The energy across L7 in the horizontal return trace interval becomes parabolic because Q23 is modulated with the V cycle and switched, the current resonates at the H cycle by C43 and L7 in the horizontal deflection period, is composed with the horizontal deflection yoke current, and corrects the side pincushion. At the same time, the S-shape correction current is modulated with the V cycle in order to correct linearity at the center screeen.

VERTICAL DEFLECTION CIRCUIT

The V cycle sawtooth wave at pin 5 of connector E-2 and the V cycle linearity correction waveform at pin 6 are composed in RV3 and amplified in the differential amplifier consisting of Q5 and Q6. The amplified signal is amplified in the SEPP amplifier arranged with Q7 through Q11 and supplied to the vertical deflection yoke from E-9. The current flowed the vertical deflection yoke is grounded through R31. The voltage at R31 is fed back to the differential amplifier in the first stage.

The H cycle pulse is supplied to the point between D7 and D8 from the P board via C12 and the voltage processed by the voltage doubler rectifier is stored in C13 by D7 and D8 in the later half period of the trace. This voltage is utilized as the power supply for the back pulse appears in the return trace interval of the vertical deflection voke, so that the return trace interval is shortened.

TOP and BOTTOM PINCUSHION CORRECTION CIRCUIT

D1 through D4 form the balanced modulator circuit. The AFC pulse is integrated in L1 and Cl, and the phase inverted signals are supplied to the balanced modulator consisting of D1 through D4 from the emitter and collector of Q1 as the subcarrier and the V cycle sawtooth wave is inputted as the modulation wave. The gain adjustment is done with RV2 and the top and bottom balance is performed with RV1. The balanced modulated signal is amplified in Q2 and Q3 and supplied to the vertical deflection yoke from the pincushion transformer (T1). The H. cycle resonance circuit is formed by the secondary impedance of L2, C8, and T1 and the H cycle phase of the correction waveform is adjusted.

G1 BLANKING CIRCUIT

The AFC pulse is shaped in L10 and C30 and the H blanking is produced in the comparator IC3. (The blanking width can be adjusted with RV10.) The resultant is the H blanking signal and it is applied to the base of blanking output transistor Q29. The voltage of the blanking signal form pin 3 of E-2 is shifted by Q28 and D22 and the blanking signal is applied to the base of Q29. The output from Q29 is clamped by C35 and D24 and supplied to G1 from pin 4 of the E-6 connector.

G2 (SCREEN) and G4 (FOCUS) CIRCUITS

The back pulse of the H. OUT is rectified in D25 to produce approx. 800 V dc voltage and approx. 580 V is obtained at the emitter of Q30. This voltage is supplied to RV8 and supplied to G4 through the secondary winding of DFT (Dynamic Focus Transformer). The focus is adjusted with RV8. The horizontal sync parabola voltage obtained by integrating the AFC pulse is supplied to the primary of the DFT and added to the focus voltage on the secondary in order to perform the dynamic focus.

The emitter voltage of Q30 goes to the G2 voltage regulator consisting of Q31, Q32, and IC1 (1/2) and the stable voltage is supplied to G2 from the emitter of Q31. The voltage can be controlled with RV9.

ABL CIRCUIT

The high tension current detected in the HV block goes to the buffer circuit at pin 3 of IC2 (1/2) through R89. The output voltage enters the zero cross comparator in IC2 (2/2). When the high tension current increases up to approx. $800~\mu\text{A}$, the pin 7 output of IC2 (2/2) becomes approx. 10~V from -10~V and energizes the overload lamp (LED) connected to the E-7 connector. At the same time, the voltage amplified in the inverting amplifier in IC1 (2/2) enters the inverting input of the error amplifier of G2 regulator, pin 3 of IC1 (1/2) and lowers the G2 voltage, so that the high tension current is maintained constant.

3-8. POWER SUPPLY CIRCUIT DESCRIPTION (G BOARD)

+12 V POWER SUPPLY

+12 V supply is used as the reference voltage for -12 V and +5 V power supply. The +12 V with a low impedance and stability is obtained from IC3 as a correct output. IC3 contains a temperature compensated reference voltage error amplifier, a regulator circuit, and a current flow limiter.

The +12 V is adjusted with RV3 whose movable slider is connected to the inverting input (pin 4) of the differential amplifier in IC3. The non-inverting input (pin 5) of the differential amplifier is connected to the reference voltage straight from pin 6 via R38. The amplified output in the differential amplifier is obtained and drives Q9. The output of Q9 drives series regulator transistor Q902.

A potential difference occurs across R42 because of the current flow in R42 and the difference appears at pin 2 (current limit) and pin 3 of IC3 (current sense). The current flow limiter functions when the potential difference between pins 2 and 3 reaches 0.7 V. The C28, R37, and C29 circuit between pins 11 and 13 of IC3 is to prevent the high-frequency oscillation of the +12 V line.

R69 is the adjusting resistor to determine the maximum value of $-12\,\mathrm{V}$ output.

+5 V POWER SUPPLY

+5 V power is supplied from IC4 as the Vcc power supplies for the ICs used in the circuitry. The reference voltage obtained by resistive division of the +12 V which is adjusted precisely is inputted to the non-inverting input of the differential amplifier circuit (pin 5 of IC4). The inverting input of the differential amplifier circuit supplies the +5 V output voltage to pin 4 via R47. The output from pin 10 drives Q10 and the +5 V output voltage can be obtained from the emitter of Q10.

The current flow limiter detects a potential difference with the current flow in R48 and initiates its operation when the potential difference reaches approx. 1.4 V.

C30 inserted between pins 4 and 13 of IC4 is for the high-frequency oscillation prevention of the +5 V line.

-12 V POWER SUPPLY

The -12 V power circuit is quite alike the +12 V one. Q901 in the -12 V circuit is the regulator transistor of the -12 V power and Q11 is the driver transistor. Q11 is driven by pin 11 of IC5. The +12 V output is used as the reference voltage of IC5. The current flow limiter circuit of the -12 V resembles that of the +12 V power circuit. The limiter functions when the potential difference across the resistor due to the current flow in R60 reaches approx. 0.7 V.

HEATER POWER SUPPLY

The heater power supply for the picture tube is supplied from Q13 driven by Q12. Its reference voltage is obtained from D42.

Q14 is SCR thyristor functioning as the heater protection circuit to open the fuse F2 when an abnormal voltage occurs in the output due to a short circuit of Q13 and other unexpected troubles.

+24 V POWER SUPPLY

+24~V power is used as the -24~V reference voltage and obtained from IC1 as the stable output voltage.

This circuit is quite alike the one of the +12 V power supply. The reference voltage is produced from the incorporated zener voltage and appears from pin 10 as the regulator transistor output. The output is used as the drive current for Q7.

The current limiter circuit also resembles the one in the +12 V power supply circuit and functions when the potential difference across R25 becomes approx. 0.5 V.

The +24 V output voltage can be adjusted with RV2.

+90 V POWER SUPPLY

+90 V supply is used in the video out, the deflection system, and other systems. The circuit is constructed with the reference voltage circuit of D8, the error amplifier circuit of Q4 and Q5, the regulator circuit of Q2 and Q903, the kick circuit of Q3, the protection and indicator circuits of F1 and D6, the excess voltage protection circuit of Q6 and D10 through D13, and other circuits.

The reference voltage of D8 is applied to the non-inverting input (Q4 base) of the differential amplifier circuit in the +90 V regulator circuit. The voltage from the detection section consisting of R14, RV1, R15, and R68 is applied to the inverting input (Q5 base) and Q2 is driven by the output of this differential amplifier. The output from Q2 drives regulator transistor Q903. The regulator circuit operation turns off for an abrupt overload (such as short circuit), but F1 is not blown out. If the regulator circuit becomes not to function due to the short circuit of the regulator transistor or etc., the output voltage turns to be in a range of 100 V to 110 V, so the protection circuit consisting of Q6 and D10 through D13 operates and the fuse F1 is blown.

When the +90 V protection circuit functions or F1 blows due to an abnormal load or other causes, indicator D6 turn on.

EXCESSIVE INPUT PROTECTION CIRCUIT

When the potential difference between C7 and C8 becomes large due to wrong ac primary input voltage, the protection circuit formed with Q1 and D5 functions in a range from 145 V to 160 V and F901 (located outside the board) opens.

DEGAUSS

Degauss coil is for the degaussing the picture tube. It is connected to the ac secondary (for +90 V line) in series with the degauss switch (S2) and the positive thermistor (PTH1). When the degauss switch is turned on, the degauss current flows until PTH1 is heated.

3-9. EHT AND PICTURE TUBE PROTECTOR (P BOARD)

EHT REGULATOR

Q1 and Q2 functions as a monostable multivibrator triggered by the AFC pulse from pin 1 of connector P-7 differentiated in R17 and C13, turning on and off drive transistor Q3 and switching the converter-out transistor, and supplies the sine waveform signal to the primary of FBT through the series and parallel resonance circuit consisting of L2, C9, C10, and FBT. The high-voltage is obtained to produce a dc voltage of five times the peak value of the FBT output voltage in the high voltage block and the voltage is divided in the high-voltage bleeder resistance in the high voltage block. Thus the high voltage and the convergence voltage are supplied to the picture tube. The high-voltage bleeder resistance is connected to the -12 V power supply via RV1 and R18 on the P board and feeds out approx. 0V and 6 V as the bleeder output of the high voltage block. The 0 V output enters the buffer in IC1 (1/2) and the buffer output goes to the error amplifier. The amplifier output enters the emitter follower of Q4 to control the supply voltage to R10 and C2 connected to the Q1 and Q2 monostable multivibrator. Consequently the time constant is changed, the on-division of the converter-out transistor is changed for varying on the current, and the back pulse voltage is changed. So this circuit controls the high voltage.

PICTURE TUBE PROTECTOR

The picture tube protector functions as follows: The approx. +6 V from the high-voltage bleeder is filtered in R26 and C16 and goes to the buffer in IC2 (1/2). The buffer output is connected to the comparator in IC2 (2/2). When the high voltage increases due to some causes and exceeds the reference voltage determined by D13, R23, R24, and R41, the output voltage of IC2 (2/2) is inverted from approx. -10 V to approx. +10 V, turning on Q5. The voltage supplied to the Q1 and Q2 monostable multivibrator from Q4 turns to ground potential, the monostable multivibrator stops, and the high voltage is cut off, protecting the picture tube. Similarly when the high-voltage bleeder output decreases below the compared voltage determined by R32 and R33, the comparator in IC3 (2/2) inverts its output from approx. -10 V to approx. +10 V, and this voltage stops the high voltage output circuit operation.

The vertical-out pulse connected to pin 4 of connector P-7 is peak-rectified by D12 and its voltage is applied to the comparator in IC3 (1/2). When the vertical-out disappears for some reason, the IC3 (1/2) output is inverted to approx. +10 V from approx. -10 V and turns on Q5. So the high voltage is cut off.

3-10. INPUT TERMINAL AND Q BOARD

Input terminal is aparted from the chassis for a minimum return loss and a better hum rejection when it is terminated with 75 Ω .

Each input terminal of the VIDEO A, VIDEO B, EXT SYNC, R, G, and B is connected to the Q board with a shielded line. The shield lines are connected to the bases of the input transistors Q1, Q7, Q13, Q19, Q27, and Q35 and the signal lines to the emitters of these transistors respectively. Consequently the hum components in the base and the emitter of each transistor are in phase, being offset each other.

The signal connected to the VIDEO A terminal is fed, through Q1, Q4, Q5, and Q6 of the OP AMP Q1, to pin 5 of IC4, switching integrated circuit. (The gain of the OP AMP is approx. 1.)

The signal entered the VIDEO B terminal is fed to pin 3 of IC4 in the same manner as in the signal connected to the VIDEO A terminal. When INPUT switch S3 on the JA board is in the A position, pin 6 of IC4 is high (approx. 4 V) and the VIDEO A signal is outputted from pin 1 of IC4 to pin 3 of IC5 and pin 5 of IC6.

When the INPUT switch S3 on the JA board is in the B position, pin 6 of IC4 is low (0 V) and the VIDEO B signal is fed to pin 3 of IC5 and pin 5 of IC6.

An incorporated crosshatch signal is connected to pin 5 of IC5. When the CROSSHATCH switch S4 on the DA board is in the OFF position, pin 6 of IC5 is low and the VIDEO A or B signal is fed to the Q-14 connector (COMP VIDEO OUT) from pin 1 of IC5 but when the CROSSHATCH switch S4 is in the ON position, pin 6 of IC5 is high and the crosshatch signal is fed to the Q-14 connector. The signal connected to the R terminal is fed to the Q-11 connector (R OUT) via Q19, Q22, Q23, Q24, and Q25 of the OP AMP Q-4. The pedestal section of the signal is clamped to 0 V by a clamper consisting of Q26, IC1-1/2, and IC1-2/2. A portion of the pedestal section is extracted in gate transistor Q26 and integrated in IC1-1/2 to become DC level. It is phase-shifted in IC1-2/2 and controls Q23 of the operation amplifier. A gate pulse is produced in IC8 clamp pulse generator and fed to each gate transistor (Q26, Q34 and Q42). The signal connected to the G terminal is supplied to the Q-10 connector (G OUT) and pin 3 of IC6 in the same manner as in the R terminal.

Similarly the signal applied to the B terminal is fed to the Q-7 connector (B OUT).

The signal connected to the EXT SYNC terminal is fed to pin 3 of IC7 in the same manner as in the VIDEO A terminal.

When the INPUT switch S3 on the JA board is in the A or B position, the SYNC signal at the A or the B terminal is supplied from pin 1 of IC6 to pin 5 of IC7 and when the INPUT switch is in the RGB position, the SYNC signal at the G terminal is supplied to pin 5 of IC7. When the SYNC switch (S2) on the JA board is in the INT position, the SYNC signal at the A, the B, or the G terminal is fed to the SYNC OUT of the Q-13 connector from pin 1 of IC7. When the SYNC switch is in the EXT position, the SYNC signal at the EXT SYNC terminal is fed.

Therefore when no SYNC component is contained in the G terminal, the EXT SYNC is necessary.

3-11. REMOTE AND VIDEO SWITCHER (T BOARD)

IC1 is a Quad 2-to-1 line data selector and its function table is shown below. Pin 15 of IC1 is connected to ground and A or B appears at output Y depending on the select mode. When the remote terminal, pin 1 of IC1, is +5 V, the A channel appears at output Y and when 0 V, the B channel appears at the output. That is, when pin 1 is set to +5 V, the output of the front control enters IC1 from the connector T-13 and goes to the Q board from the connector T-19, controlling the input signal and when pin 1 is set to 0 V, the voltage from the 10P connector (CNJ902) enters the connector T-20 and goes to IC1 from the connector T-19, controlling the signal, which is the remote control of the signals.

[FUNCTION TABLE]

| INPUTS | | | | OUTPUT |
|--------|--------|---|---|--------|
| STROBE | SELECT | А | В | Υ |
| Н | X | X | Х | L |
| L | L | L | X | L |
| L | L | Н | X | Н |
| L | Н | Х | L | L |
| L | Н | X | Н | Н |

H : high level L : low level

X : high or low level

3-12. CROSSHATCH GENERATOR (U BOARD)

HORIZONTAL HATCH GENERATOR

The wave-shaped H. sync pulse is applied to pin 12 of IC1 (4/4) via the R25 and C13 filter circuit.

In the CROSSHATCH mode, C.H. switch S4/DA board is on, +5 V is applied to pin 13 of IC1 (4/4) and pin 1 of IC1 (1/4). The H. sync inverted in IC1 (4/4) and IC1 (1/4) goes through Q1, is differentiated in the C1, C2, R3, and RV1 circuit, and outputted from the collector of O2.

The OSC circuit consisting of Q4 and Q5 having the C5 and L1 resonance circuit stops its oscillating only during the period of the H, pulse passed through Q2 and Q3. The OSC output enters the limter circuit formed by Q4 and Q6, is counted down to 1/2 in IC2, and applied to pin 1 of IC7 (1/2), monostable multivibrator.

Approx. 180 nS duty positive polarity pulse is produced by R46, RV2, C35, and IC7 (1/2) on the basis of the negative going of the pulse applied to pin 1 of IC7 and the produced pulse appears at pin 13 of IC7 (1/2).

VERTICAL HATCH GENERATOR

IC3 and IC2 (2/2) form a 5 bit binary counter. The H. pulse of the pin 3 output of IC1 (1/4) is used as the clock pulse. The 1/32 fH pulse from pin 12 of IC2 (2/2) and the 1/8 fH pulse from pin 8 of IC3 are gated in IC5 (1/4).

The gate output from pin 3 of IC5 (1/4) turns from high to low after 20 H from the counter reset. This output is differentiated in C11, R23, and R24, and applied to pin 13 of IC5 (4/4).

The 1/2 fH pulses from pins 1 and 12 of IC3 are inverted in IC6 (1/4) and applied to pin 9 of IC5 (3/4). This pulse turns to low from high after 1 H from the counter reset. IC5 (4/4) and IC5 (3/4) form a latch circuit. The pulse which turns to high from low 20 H after the counter reset and to low from high 21 H after reset appears at pin 11 of IC5 (4/4).

This pulse is differentiated in C10, R21, and R22, goes to IC3 via IC4 (1/4), is inverted in IC4 (2/4), and applied to IC2 (2/2), which makes IC3 and IC2 (2/2) reset again 20 H after their reset and the resetting is repeated.

The wave-shaped positive V. pulse with 4 H width is inverted in IC4 (4/4), goes through IC4 (1/4), and resets IC3. The pulse is further inverted in IC4 (2/4) and resets IC2 (2/2).

Consequently the 1 H width V. hatch pulse of positive polarity is obtained at pin 11 of IC5 (4/4) at 20 H cycle after the counter is reset by the V. pulse.

NOISE GATE

The wave-shaped horizontal blanking pulse is applied to pin 9 of IC1 (3/4) via R40 and amplifier Q7.

The wave-shaped H. sync pulse of the pin 3 output of IC1 (1/4) is applied to pin 10 of IC1 (3/4) for gating and the H. sync pulse of negative polarity is obtained at pin 8 of IC1 (3/4).

The pulse is rectified in the D7, C15, R28, and R29 circuit and applied to the base of Q9. The dc voltage divided by R30 and R32 is applied to the emitter of Q9. Q9 conducts when the H. sync pulse appears at pin 8 of IC1 (3/4) and turns off when the H. sync pulse does not exist at the pin. The collector output of Q9 is applied to pin 13 of IC6 (4/4) and becomes the low level when Q9 is in the off state. Consequently the H. V. hatch signal mixed in IC6 (2/4) is stopped in IC6 (4/4).

H. and V. BLANKING

The H. sync pulse obtained by waveform shaping of the output from pin 11 of IC1 (4/4) is applied to pin 9 of IC7 (2/2) monostable multivibrator and approx. 8 μ S negative polarity pulse produced on the basis of the front edge change of the sync pulse by R43, RV3, L32 and IC7 (2/2) is obtained at pin 12 of IC7 (2/2). Each of the H. and V. hatch signals is blanked only during the pulse period by applying the pin 12 output of IC7 (2/2) to pin 10 of IC4 (3/4) and pin 5 of IC5 (2/4).

The wave-shaped V pulse of the pin 11 output of IC4 (4/4) is applied to pin 3 of IC7 (1/2) for the blanking of the H, hatch signal only during the V, pulse period.

3-13. SYNC PROCESSOR (V BOARD)

SYNC AGC

The composite video signal selected with SIGNAL INPUT switch (S3) on the J board or the composite sync signal selected with EXT SYNC switch (S2) is fed to the chroma filter consisting of R1 and C1 and applied to Q1.

The Q1 emitter output and the dc bias output of the Q2 emitter enter the emitter of amplifier Q3. Q4 connected to the collector of Q3 acts as a variable impedance element by the base bias of Q4. The circuit, therefor, functions as the AGC circuit to control the amplification gain of Q3.

The collector output of Q3 is applied to Q11 via cascade amplifier Q7 and Q8.

Q12, Q13, and Q14 serve as the voltage comparator to compare the base dc voltages of the transistors with the dc level of the output signal from the Q11 emitter.

The base bias for each of Q12 through Q14 is provided by the voltage divider consisting of R20 through R23.

The sync tip of the Q11 output signal conducts Q12, C6 is charged, the charged voltage drives Q9 and Q8, and then the output from Q11 is reproduced to dc.

Q13 conducts at approx. 50% level between the sync tip of the Q11 output signal and the pedestal.

Q14 compares the sync width of the Q11 output signal with the blanking width and sets the voltage level of the pedestal section through the AGC loop.

The collector current of Q14 flows to the integrating circuit formed by C19 and R17, the emitter impedance of Q4 is determined by the voltage in C19, and the amplification gain of Q3 is controlled so that Q14 conducts at the pedestal level of the signal.

1 H SYNC SEPARATION

The Q16 collector output after the sync separation is differentiated in the C27, R36, and R37 circuit and only the front edge pulse of the sync pulse enters pin 1 of IC4 (1/2) via IC2 (6/6) and IC3 (1/4). The Q16 output is inverted in IC2 (5/6), differentiated in C28, R38, and R39, and enters pin 3 of IC4 (1/2).

The pin 4 output of IC4 (1/2) is made to the negative polarity pulse determined by the negative trigger pulses from pins 1 and 3 of IC4 (1/2) in the circuit arranged with R40, C31, D12, and IC4 (1/2).

The output from pin 4 of IC4 (1/2) is applied to pin 2 of IC5, monostable multivibrator and the positive polarity pulse of approx. $50 \mu S$ produced on the basis of the negative-going of the sync pulse appears at pin 3 of IC5. The pulse is inverted in IC2 (1/6), applied to pin 2 of IC3 (1/4), and processed in the AND-gate with the putput pulse from pin 12 of IC2 in order to the equivalent pulse and others contained in the sync signal of Q16. Thus the pin 4 output pulse of IC4 becomes the 1 H cycle pulse.

H DELAY

The output pulse of pin 4 of IC4 is applied to pin 2 of IC6, monostable multivibrator and the positive polarity pulse of approx. $40 \mu S$ produced on the basis of the negative-going of the H. sync pulse by R42, RV1, C37, C36, and IC6 appears at pin 3 of IC6. This pulse is applied to pin 9 of IC4 (2/2) and the output pulse from pin 4 of IC4 (1/2) is applied to pin 10 of IC4 (2/2) via IC3 (2/4). In the H DELAY mode, pin 5 of IC3 (2/4) is 0 V and the approx. $6 \mu S$ negative polarity pulse is produced on the basis of the negative-going of the input pulse to pin 9 by R45, RV2, C41, and

IC4 (2/2) as the output from pin 2 of IC4 (2/2).

In the NORMAL mode, the pulse from pin 9 of IC4 (2/2) is canceled by the pulse from pin 10 and the negative polarity pulse of approx. $5 \mu S$ produced on the positive-going of the pin 10 pulse is obtained as the output from pin 12.

31 kHz GENERATOR

The wave-shaped horizontal blanking pulse is applied to pin 2 of IC7 and pin 10 of IC13 (3/4), the pulse of approx. $32 \mu S$ duty cycle produced on the basis of the negative-going of the applied pulse by R58, RV3, C50, C51, and IC7, and the produced pulse is outputted from pin 3 of IC7.

This pulse is differentiated in the circuit formed with C52, R59, and R60, applied to pin 9 of IC13 (3/4), processed in the AND-gate with the input pulse to pin 10, and the negative polarity pulse of 31 kHz cycle is obtained as the output from pin 8 of IC13.

VERTICAL SYNC GENERATOR

IC9, IC10, and IC11 are binary counters using the 31 kHz pulse from IC13 (4/4) as the clock pulse.

The sync signal of the Q16 output is integrated in the R46, C46, R71, R47, C47, and IC8 (2/2) circuit and sliced by D10 and D11 to separate only the vertical sync.

The sync goes through buffer amplifier IC8 (1/2), is differentiated by C49 and R53, and enters amplifier O20.

The negative polarity vertical pusle of the Q20 collector output is inverted in IC2 (3/6), applied to pin 12 of IC12 (3/4) and differentiated by the C67, R55, and R56 circuit, and also applied to pin 14 of IC12 (4/4).

Since pin 10 of IC14 (5/6) remains in low, pin 13 of IC12 (3/4) in high, pin 6 of IC14 in low, and pin 11 of IC12 (3/4) in high at least within 1 field after the vertical pulse is applied, the following input vertical pulse is inverted, appears at pin 9 of IC12 (3/4), is differentiated by C68, R64, and R65, and applied to pin 13 of IC15 (4/4).

When the second vertical pulse turns to low from high before it is inputted, the output from pin 12 of IC14 (6/6) is differentiated by C66, R62, and R63, and the pin 11 output of IC15 (4/4) becomes high. This output serves as the reset pulse for counters IC9, IC10, and IC11.

At this time the pin 11 output of IC15 (4/4) goes to inverter IC14 (1/6) to be the reset pulse for IC15 (1/4) and IC12 (1/4) and each output is fixed to low.

Similarly the vertical pulse to pin 13 of IC15 (4/4) acts as the counter reset pulse.

IN NORMAL MODE

+5 V is applied to pin 1 of IC13 (1/4). The 1/2 fH pulse is applied to pin 2 of IC13 from pin 9 of IC9 and the pin 2 turns to high from low within 1 H after the vertical pulse is inputted. Pin 3 of IC13 (1/4) turns to low from high. The change goes through IC12 (1/4) and IC14 (4/6), is differentiated in C64, R68, and R69, and enters pin 6 of IC12 (2/4). Pin 7 is fixed to high. The 1/8 fH pulse, pin 11 output of counter IC9, is applied to pin 5 of IC12 (2/4) and the pin 7 output of IC12 (2/4) turns to high at 4 H after the vertical pulse is inputted. The level turns to low after 8 H and is fixed. This state is kept until the following vertical pulse is inputted.

IN DELAY MODE

Pin 1 of IC13 (1/4) becomes 0 V with the DELAY switch. The 1/256 fH pulse of the pin 1 and 12 outputs of counter IC11 is inverted in IC13 (2/4). The inverted pulse is applied to pin 2 of IC12 (1/4). The pulse turns to low from high at 128 H after the vertical pulse. The pin 4 output of IC12 (1/4) turns to high from low at 128 H. The output from IC14 (4/6) turns to low from high. The positive polarity of 4 H width appears as the pin 7 output of IC12 (2/4) from 128 H by the same principle with the NORMAL mode.

VERTICAL SYNC NOISE GATE

The 1/512 fH pulse, output from pin 9 of counter IC11 is inverted in IC14 (5/6) and applied to pin 15 of IC12 (4/4).

The pin 13 output of IC12 (4/4) remains in low until 256 H pulse input from the vertical pulse input and turns to high from 256 H pulse input. The change is inverted in IC14 (3/6) and applied to pin 10 of IC12 (3/4). The output of pin 11 of that IC is low until 256 H pulse input and turns to high after 256 H until the following vertical pulse is inputted and the counter is reset.

Consequently even if a noise is mixed into the vertical pulse until 256 H from the vertical pulse input, the noise is canceled in IC12 (3/4) and the noise component does not appear.

VERTICAL FREE RUN GENERATOR

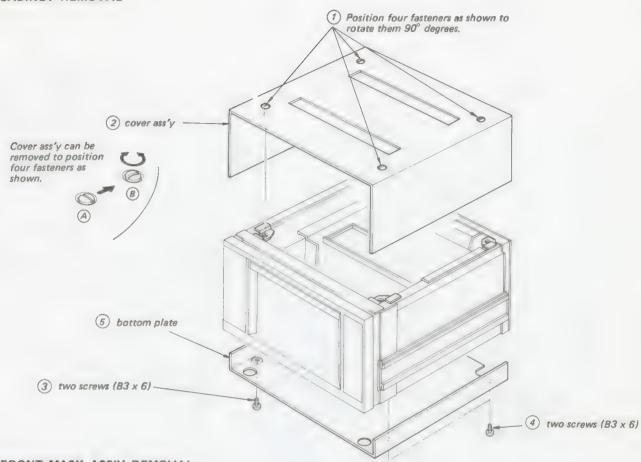
The 1/16 fH pulses of the pins 1 and 12 outputs of IC10 and the 1/512 fH pulse output from pin 9 of IC11 are processed in AND-gate IC15 (3/4) and the pulse which turns from high to low at 264 H from the vertical pulse input is obtained at pin 8 of IC15 (3/4). Note that this is the case that the succeeding vertical pulse is not inputted and the counter is not reset. The pin 6 output of IC15 (2/4) turns to high from low at 264 H, is inverted in IC14 (6/6), differentiated by C66, R62, and R63, and the pulse which turns to high from low at 264 H appears at pin 11 of IC15 (4/4). The counter reset is repeated by this pulse until the vertical pulse is inputted and the 4 H width pulse of 264 H cycle is obtained at pin 7 of IC12 (2/4).

3-14. TALLY CIRCUIT (XA and XB BOARDS)

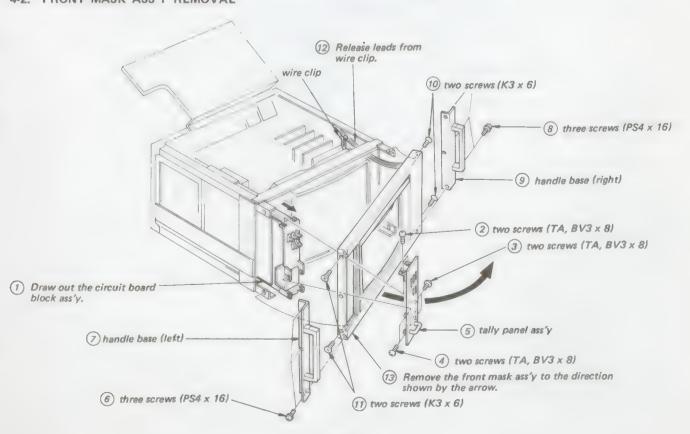
S2 on the XB board is a BCD switch, IC1 is a BCD-to-7 segment decoder, and S2 and IC1 are connected. The binary signal selected with S2 is converted to energize a 7 segment LED (LED1) on the XA board. The energized LED has the identical number to the one selected with S2. When the S1 is OFF position, ON and OFF of LED is controlled by the external switch.

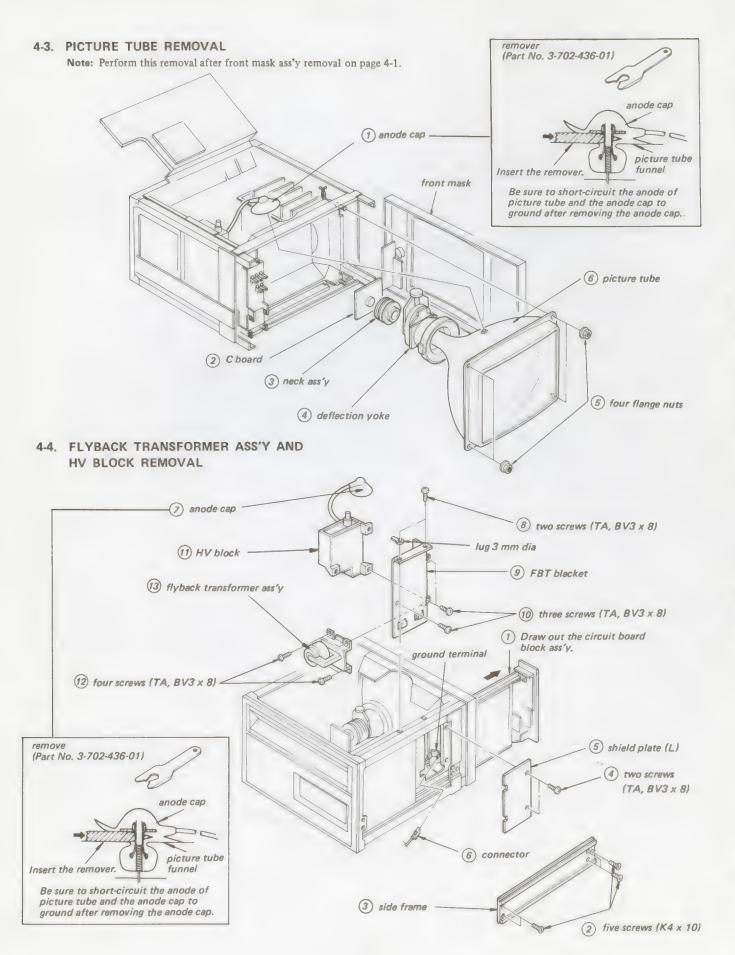
SECTION 4 DISASSEMBLY

4-1. CABINET REMOVAL

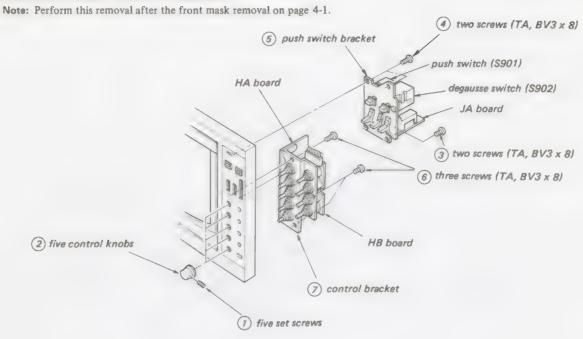


4-2. FRONT MASK ASS'Y REMOVAL

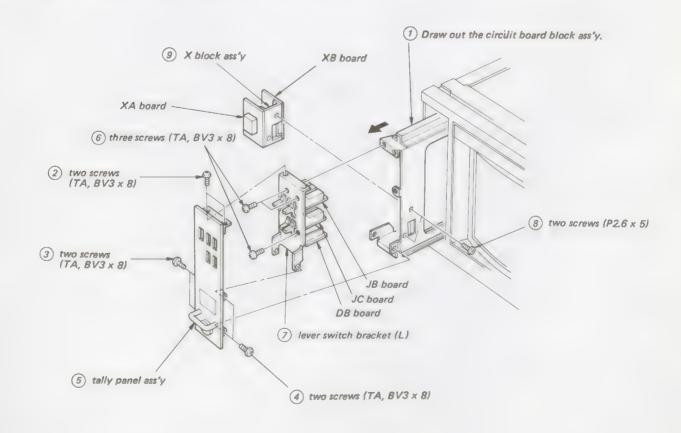




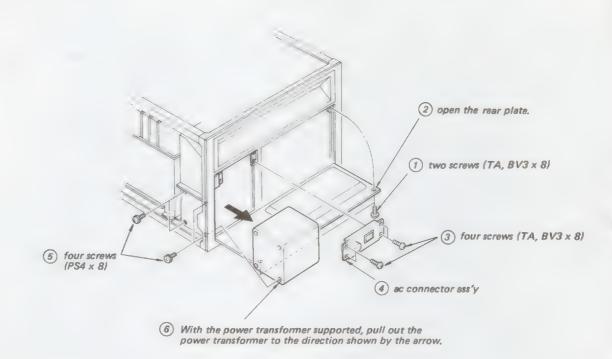
4-5. CONTROL BLOCK (RIGHT) REMOVAL



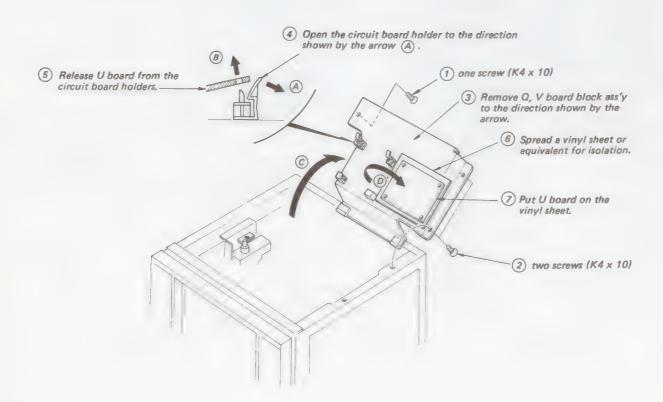
4-6. CONTROL BLOCK (LEFT) REMOVAL



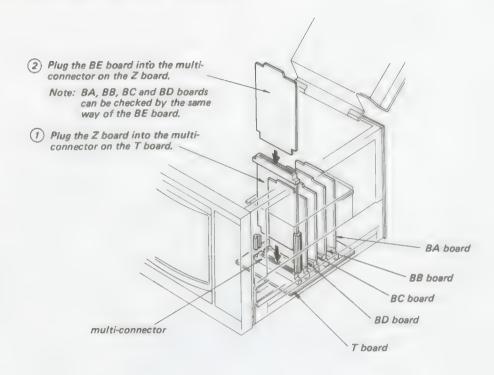
4-7. POWER TRANSFORMER REMOVAL



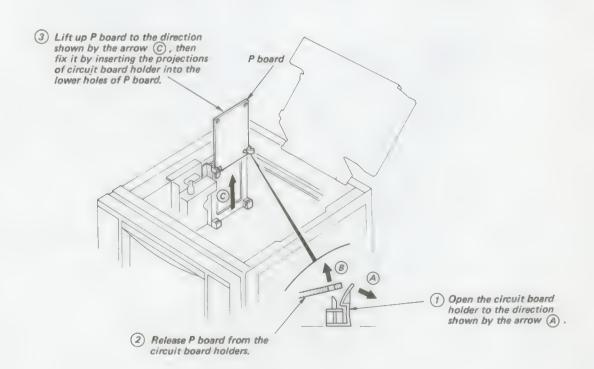
4-8. U BOARD REMOVAL (CHECKING IT UP)



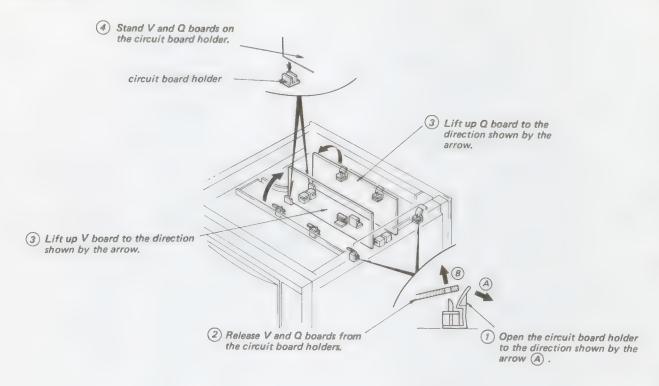
4-9. CHECK OF BA, BB, BC, BD AND BE BOARDS



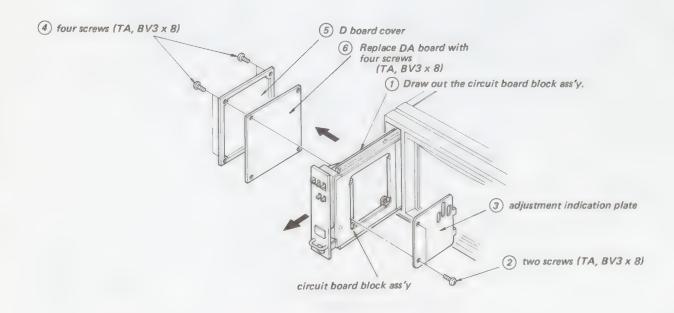
4-10. P BOARD REMOVAL (FOR CHECKING IT UP)



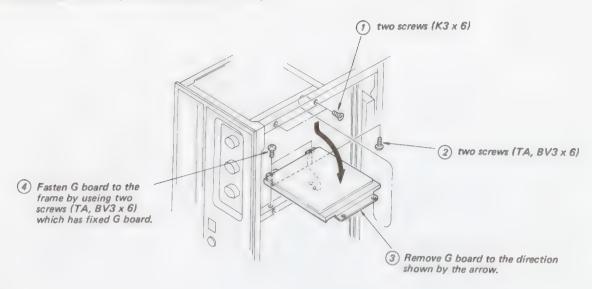
4-11. V AND Q BOARDS REMOVAL (FOR CHECKING THEM UP)



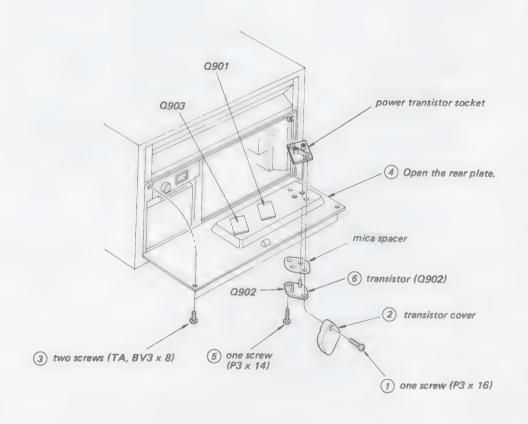
4-12. DA BOARD REMOVAL (FOR CHECKING IT UP)



4-13. G BOARD REMOVAL (FOR CHECKING IT UP)

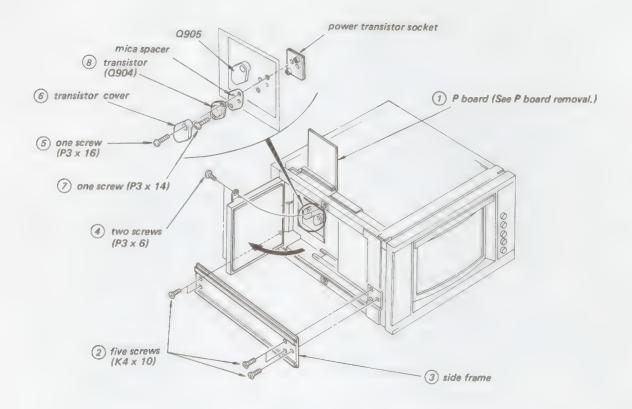


4-14. TRANSISTOR REMOVAL (Q901, 902 and 903)



4-15. TRANSISTOR REMOVAL (Q904, 905)

Note: Perform this removal after P board removal on page 4-5.



SECTION 5 ADJUSTMENTS

5-1. SETUP ADJUSTMENT

The adjustment procedure after the replacement of a picture tube is described below. Usually adjust subcontrols on the subcontrol panel for the convergence and white balance adjustment.

[Jigs, Tools, and Measurement Equipment Required]

- 1. Signal Generator (TEKTRONIX 1410 series)
- 2. Color Analyzer
- 3. Luminance Meter

[Landing Adjustment]

- Connect the signal generator to the BVM-1201 and feed in the white signal.
- Turn the BRIGHTNESS and CONTRAST knobs fully clockwise.
- Place the BVM-1201 so that the screen faces the east (or the west) and degauss allover the screen with the degausser.
- Keep pushing the DEGAUSS switch more than 5 seconds (until the picture rolling stops) for the degaussing.
- Set the PURITY adjusting knob to its mechanical center. (See Fig. 5-1.)

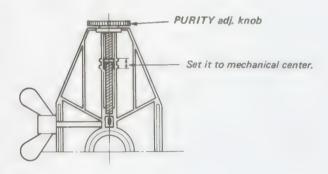


Fig. 5-1.

- Slide the deflection yoke as fully until it contacts the picture tube funnel closely.
- 7. Fix the neck assembly at the position as shown in Fig. 5-2.

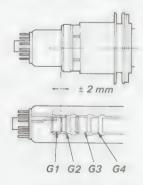


Fig. 5-2.

Make the screen green only. (S1 and S3 on the DA board are OFF and S2 is ON.)

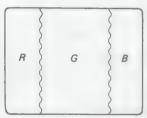


Fig. 5-3.

- Turn the PURITY adjusting knob so as to center the green band on the screen as shown in Fig. 5-3.
- Slide back the deflection yoke so that the green raster covers allover the screen.
- 11. Make the screen red only (S2 and S3 on the DA board are in the OFF position and S2 in the ON position) and repeat Steps 9. and 10. so that the red raster covers allover the screen.
- 12. Make the screen blue only (S1 and S2 on the DA board are in the OFF position and S3 in the ON position) and repeat the 9. and 10. steps so that the blue raster covers allover the screen.
- Adjust the tilt of the deflection yoke and tighten the fixing screw.

When Color Nonuniformity exists at a screen corner:

 Apply the magnet around the deflection yoke where the color nonuniformity exists from the funnel side as shown in Fig. 5-4.

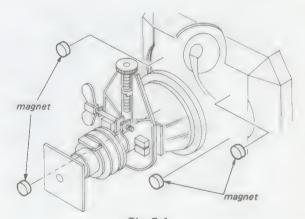


Fig. 5-4.

2. When the magnet is applied, degauss the face of the picture tube with the degausser.

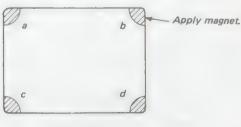


Fig. 5-5.

• Final Confirmation

After the adjustment, confirm finally that no color nonuniformity is observed when the BVM-1201 is placed facing in all the directions—north, south, east and west.

[Focus Adjustment]

- 1. Connect the signal generator of 1410 series) to the BVM-1201.
- 2. Feed in the dot and crosshatch signals.
- Adjust FOCUS control (RV8) on the E board so that the center section of the picture is the best focus.

[Convergence Adjustment]

Preparation

- Complete the signal generator (of 1410 series) connection and feed in the dot and crosshatch signals.
- Set the CONTRAST AND BRIGHTNESS knobs to the points where the dots and the crosshatch can be observed clearly.
- Set the SUB. H. STATIC control (RV 10) on the DA board to its mechanical center.

1. Static Convergence

- Horizontal Static Convergence
- Adjust H. STAT control for the convergence of red and green in the horizontal direction at the screen center.
- Perform the HMC correction when blue is out of convergence in the same direction on allover the screen.
- Move the BMC magnet as shown in Fig. 5-6(a) to correct insufficient H. static convergence.
- Vertical Static Convergence
- Adjust the V. STATIC control (RV 11) on the DA board for the convergence of red and green in the vertical direction at screen center.
- When blue is out of the convergence in the same direction allover the screen, perform the VMC correction.
- 3) Move the BMC magnet as shown in Fig. 5-6(b) to correct insufficient static convergence.

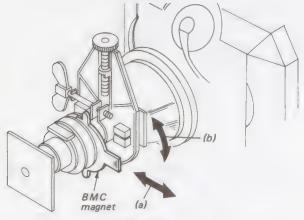


Fig. 5-6.

- Note: 1) The HMC and VMC corrections should be repeated two or three times because these corrections are affected by each other.
 - Sometimes the focus becomes poor after the HMC or VMC correction so the focus adjustment should be done again after these corrections.

2. Dynamic Convergence

 Adjust the H. AMP (RV7), H. TILT (RV8), and Y. BOW (RV9) controls on the DA board as follows.



Adjust RV7 so that L1 is equal to L2 or L2 to L3.

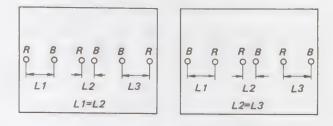


Fig. 5-7.

HTILT

Adjust RV8 for the convergence of red, green and blue.

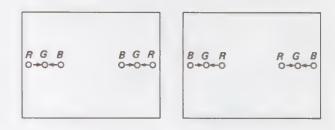


Fig. 5-8.

Y BOW

Adjust RV9 for the convergence of red, green and blue.

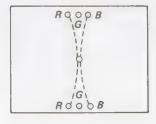


Fig. 5-9.

 The adjustment should be done by moving the deflection yoke and the yoke should be fixed with the DY spacers after the adjustment. (See Fig. 5-12.)

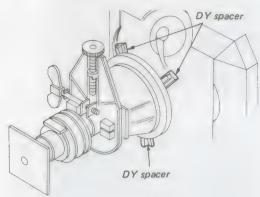


Fig. 5-12.

Move deflection yoke downward.



Move deflection yoke upward.

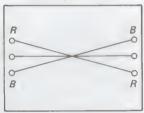
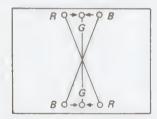


Fig. 5-13.

2) Adjust the Y. TILE control (RV4) on the DB board (Fig.5-24) as shown below.

Y TILT



Adjust RV4 so that red, green, and blue converge.

Fig. 5-14.

3) Adjust the V. TILT-GAIN (RV3), the V. TILT-TOP (RV2), and the V. TILT-BOTTOM (RV1) controls on the DB board (Fig.5-24) for the V. tilt gain as shown below.

V TILT-GAIN





Adjust RV3 so that red, green, and blue converge.

Fig. 5-15.

V TILT-TOP

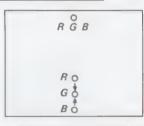


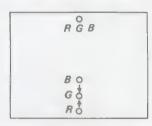


Adjust RV2 so that red, green, and blue on the upper section of the screen converge.

Fig. 5-16.

V TILT-BOTTOM





Adjust RV1 so that red, green, and blue on the lower section of the screen converge.

Fig. 5-17.

• When misconvergence is observed at a corner; Insert and paste the permalloy assembly between the deflection yoke and funnel corresponding to the corner where the misconvergence is observed as shown in Fig. 5-18.

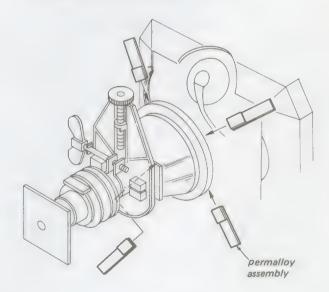


Fig. 5-18.

Note: After the landing adjustment and the convergence adjustment, fix the purity magnet and the BMC magnet with white paint or something like that.

[White Balance Adjustment]

- 1. Extract the BE board with using the Z board.
- Set the R.G.B. BIAS and GAIN controls (RV1 through RV6 on DA board) to each mechnical center.
- Set the CONTRAST and BRIGHTNESS knobs to each detent (fully counterclockwise) position.
- Set the SET UP switch (S5) on the DA board to the ON position. (A dark picture with 1/3 of the normal vertical size is observed.)
- Connect an oscilloscope to TP1 on the BE board and adjust RV1 for 60V dc. (See Fig. 5-19.)
- Remove the scope and connect it to TP2 and adjust RV3 for 60V dc. (See Fig. 5-19.)
- Adjust the SCREEN control (RV9) on the E board so that the emitting color in the above condition brights faintly.
- 8. Push the DEGAUSS switch for degaussing.
- Attach the color analyzer and the luminance meter on the picture tube face.
- Adjust the R.G.B. BKG controls (RV1, RV3, and RV5) on the BE board so that the 1 NIT luminance and the 6500°K color temperature are obtained at the SETUP mode.
- 11. Set off the SETUP switch.
- Connect the signal generator to the BVM-1201 and feed in a white pattern (100% white). (See Fig. 5-20.)
- 13. Adjust the R.G.B. DRIVE controls (RV2, RV4, and RV6) on the BE board so that the 103 NIT luminance and the 6500°K color temperature are obtained at the HIGH LIGHT mode.
- 14. Confirm that the white balance is good at the SETUP mode.
- Set the SET UP switch (S5) on the DA board to the ON position.
- 16. Measure the voltage at each of TP1, TP2, and TP3 on the BE board with the oscilloscope and confirm that voltage at one of the test points is 60V to 63V and the ones at other two points are below the voltage. (See Fig. 5-21.)



Fig. 5-19.



100% white signal (VIDEO IN connector should be terminated with a $75\Omega_{\rm e}$)

Fig. 5-20.



Fig. 5-21.

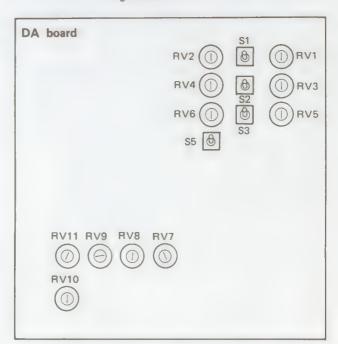


Fig. 5-22.

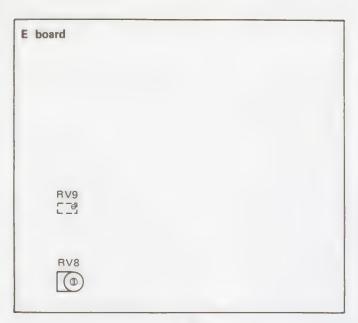
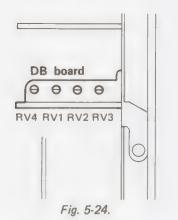


Fig. 5-23.



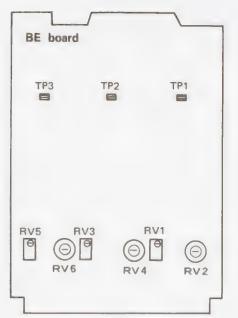


Fig. 5-25.

5-2. G BOARD ADJUSTMENT

Note: TEST EQUIPMENT REQUIRED

1. Digital multimeter (input impedance: $1 M\Omega$ or more)

2. Electrostatic voltmeter (input impedance $2 \times 10^9 \,\Omega$ or more)

example: ESH-27X or ESH-23X of the SINGER COMPANY

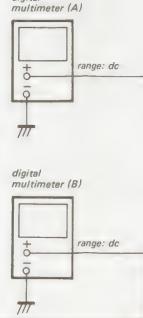
3. Variable auto-transeformer

4. Video tuner SONY Model "VTU-200" or equivalent

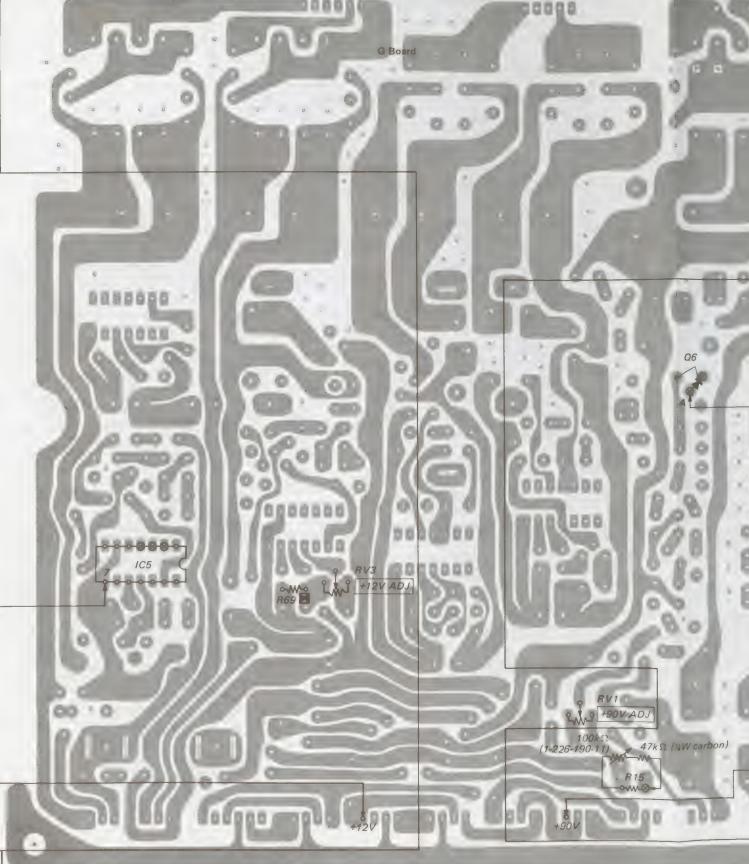
R69 ADJUSTMENT

Note: When replacing the following components, make this adjustment.
R43, R44, R53, R54, R58, R59, R69, R70, RV3 and IC3 on G board

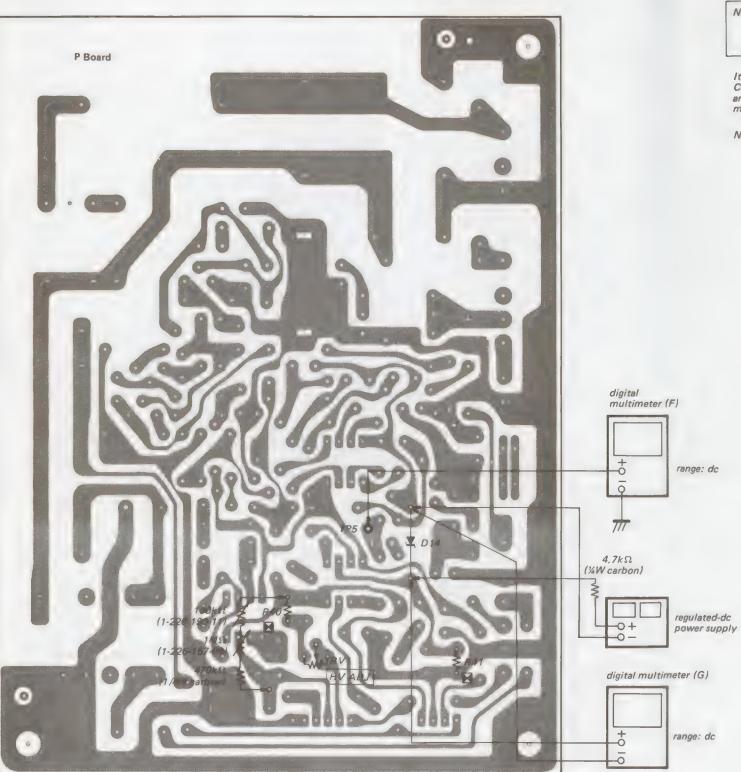
- 1. Turn the CONTRAST and BRIGHTNESS controls fully counterclockwise and lock them.
- Turn the RV3 for a maximum reading on the digital multimeter (A).
- 3. Confirm that the digital multimeter (A) reading is between -12.7 V to -12.3 V.
- If the digital multimeter (A) reading is out of them, select a value of R69 (% W metal-oxide) and repeat above steps 2 and 3.
- 5. Adjust RV3 for +12 V on the digital multimeter (B).



digital



50000 ce: 1 MΩ or more) pedance 2 x10° Ω or 23X of PANY 00" or equivalent ng components, make this 9, R69, R70, RV3 and IC3 on anoppos OPERATION CHECK OF +90 V PROTECTOR RIGHTNESS controls fully digital multimeter (D) um reading on the digital 06 neter (A) reading is between ading is out of them, select a and repeat above steps 2 and range: dc ital multimeter (B). 7// Note: When replacing the following components, make this check. D10, D11, D12, D13, Q6, R17, R18 and R73 on G board 1. Turn the CONTRAST and BRIGHTNESS controls fully digital counterclockwise and lock them. multimeter (A) 2. Connect a series combination of 100k Ω variable and 47k Ω resistors in parallel with R15. 3. Set the 100k Ω variable resistor to a maximum resistance. 4. Turn on the POWER switch. range: dc 5. When the voltage on the digital multimeter (E) is slowly raised from +90 V by turning the 100 k Ω variable resistor, confirm that the voltage on the digital multimeter (D) drops abruptly, with the voltage on the multimeter (E) pointed less than +108 V. 7// 6. Turn off the POWER switch and disconnect the series combination of the 100k Ω variable and 47k Ω resistors. 7. Turn on the POWER switch and confirm that the normal picture is obtained. digital (T) (3) * 4/4 multimeter (B) digital 47kΩ (%W carbon) multimeter (E) range: dc range: dc 7// 7//



R40 AND R41 ADJUSTMENTS

Note: When replacing the following components, make this adjustment.

D13, D14, R18, R23, R24, R40, R41 and RV1 on P board and HV block

It is necessary to use an electrostatic voltmeter for this adjustment. Connect the electrostatic voltmeter to the anode cap. Even though an electrostatic voltmeter may not be used, connect a digital multimeter to TP5 on P board.

Note: • Use an electrostatic voltmeter which is calibrated to the best, and which has 2 x 10 9 Ω or more input impedance.

(example: ESH-27X or ESH-23X of the)

 Use a digital multimeter which has 4 digit or more, and count a high-voltage from the digital multimeter reading.

Case of electrostatic voltmeter

- Turn the CONTRAST and BRIGHTNESS controls fully counterclockwise. (Do not turn them to the locked position.)
- 2. Turn RV1 for a maximum reading on the electrostatic voltmeter,
- 3. Confirm that the reading on the electrostatic voltmeter is between 20.4 kV and 20.8 kV.
- If necessary, select the resistance value of R40 (% W metal-oxide) and repeat above steps 2 to 4.
- 5. Adjust RV1 for 20.0 kV on the electrostatic voltmeter.
- 6. Connect a series combination of 1 M Ω variable, 100 k Ω variable and 470 k Ω resitors as shown.
- 7. Turn the 1 M Ω and 100 k Ω variable resistors for a maximum resistance.
- E Confirm that the reading on the electrostatic voltmeter drops abruptly from between 23.0 kV and 23.8 kV by turning the 1 M Ω and 100 k Ω variable resistors.
- 9. When the voltage-drop in step 8 is not confirmed with the high-voltage rised enough, turn RV1 (+90 V ADJ) and RV3 (+12 V ADJ) on G board to rise the high-voltage. And confirm that the reading on the electrostatic volt
- When the voltage-drop in steps 8 or 9 is not confirmed, select a resistance value of R41 (% W metal-oxide) and repeat above steps 6 through 9.
- 11. Disconnect the series combination of 100 k Ω variable, 1 M Ω variable and 470 k Ω resistors. When the step 9 is performed, adjust RV1 (+90 V ADJ) and RV3 (+12 V ADJ) on G board.

RV1 (+90 V ADJ): Adjust RV1 for +90 V dc on the digital multimeter (E).
RV3 (+12 V ADJ): Adjust RV3 for +12 V dc on the digital multimeter (B).

- Connect a regulated dc power supply and a 4.7 kΩ ¼ W carbon resistor across D14 as shown.
- 13. Confirm that the digital multimeter (G) reading is between 20.96 V and 22.30 V.

Case of Digital Multimeter (F)

Connect the digital multimeter (F) to TP5 on P board, and count a high-voltage from the digital multimeter (F) reading as shown below.

Adjusting procedures are the same as the case of the electrostatic voltmeter.

| electrostatic voltmeter reading | digital multimeter reading (voltage on TP5) | |
|---------------------------------|---------------------------------------------|--|
| 20.0 kV | 5.427 V | |
| 20.4 kV | 5.536 V | |
| 20.8 kV | 5.644 V | |
| 23.0 kV | 6.241 V | |
| 23.8 kV | 6.458 V | |

- JIG,TOOL, AND
 - 1) Signal Generator
 - 2) Oscilloscope (TE

5-4. CIRCUIT AD

- 3 Differential Amp
- (4) Return Loss Brid
- 5 Video Sweep Ge
- 6 Oscilloscope (wit
- 7) Tracking Scorp (
- 8 Video Frequency
- o video i requenci
- 9 High Gain Video
- 10 75 ohms termina
- 11 Isolation Transfe
- (12) Vector Monitor
- 13 Digital Voltmete
- 14 Attenuator
- 4 Attenuator
- Linearity Gauge 0305-00)

Note: The measurem should be the

R40 AND R41 ADJUSTMENTS

Note: When replacing the following components, make this adjustment.
D13, D14, R18, R23, R24, R40, R41 and RV1 on P board and HV block

It is necessary to use an electrostatic voltmeter for this adjustment. Connect the electrostatic voltmeter to the anode cap. Even though an electrostatic voltmeter may not be used, connect a digital multimeter to TP5 on P board.

Note: • Use an electrostatic voltmeter which is calibrated to the best, and which has 2 x 10 $^{\circ}$ Ω or more input impedance.

(example: ESH-27X or ESH-23X of the)
SINGER COMPANY

 Use a digital multimeter which has 4 digit or more, and count a high-voltage from the digital multimeter reading.

digital multimeter (F) 4.7kΩ (½W carbon) regulated-dc power supply digital multimeter (G)

range: dc

Case of electrostatic voltmeter

- Turn the CONTRAST and BRIGHTNESS controls fully counterclockwise. (Do not turn them to the locked position.)
- 2. Turn RV1 for a maximum reading on the electrostatic voltmeter.
- Confirm that the reading on the electrostatic voltmeter is between 20.4 kV and 20.8 kV.
- 4. If necessary, select the resistance value of R40 (% W metal-oxide) and repeat above steps 2 to 4.
- 5. Adjust RV1 for 20.0 kV on the electrostatic voltmeter.
- 6. Connect a series combination of 1 M Ω variable, 100 k Ω variable and 470 k Ω resitors as shown.
- 7. Turn the 1 M Ω and 100 k Ω variable resistors for a maximum resistance.
- 8. Confirm that the reading on the electrostatic voltmeter drops abruptly from between 23.0 kV and 23.8 kV by turning the 1 $M\Omega$ and 100 $k\Omega$ variable resistors.
- 9. When the voltage-drop in step 8 is not confirmed with the high-voltage rised enough, turn RV1 (+90 V ADJ) and RV3 (+12 V ADJ) on G board to rise the high-voltage. And confirm that the reading on the electrostatic volt
- When the voltage-drop in steps 8 or 9 is not confirmed, select a resistance value of R41 (% W metal-oxide) and repeat above steps 6 through 9.
- 11. Disconnect the series combination of 100 k Ω variable, 1 M Ω variable and 470 k Ω resistors. When the step 9 is performed, adjust RV1 (+90 V ADJ) and RV3 (+12 V ADJ) on G board.

RV1 (+90 V ADJ): Adjust RV1 for +90 V dc on the digital multimeter (E).
RV3 (+12 V ADJ): Adjust RV3 for +12 V dc on the digital multimeter (B).

- Connect a regulated dc power supply and a 4.7 kΩ ¼ W carbon resistor across D14 as shown.
- 13. Confirm that the digital multimeter (G) reading is between 20.96 V and 22.30 V.

Case of Digital Multimeter (F)

Connect the digital multimeter (F) to TP5 on P board, and count a high-voltage from the digital multimeter (F) reading as shown below.

Adjusting procedures are the same as the case of the electrostatic voltmeter.

| electrostatic voltmeter reading | digital multimeter reading (voltage on TP5) | |
|---------------------------------|---------------------------------------------|--|
| 20.0 kV | 5.427 V | |
| 20.4 kV | 5.536 V | |
| 20.8 kV | 5.644 V | |
| 23.0 kV | 6.241 V | |
| 23.8 kV | 6.458 V | |

5-4. CIRCUIT ADJUSTMENTS JIG, TOOL, AND MEASUREMENT EQUIPMENT REQUIRED

- 1) Signal Generator (TEKTRONIX 1410 series)
- (2) Oscilloscope (TEKTRONIX 7000 series)

3 Differential Amplifier Unit (TEKTRONIX 7A13)

Used for INPUT terminal

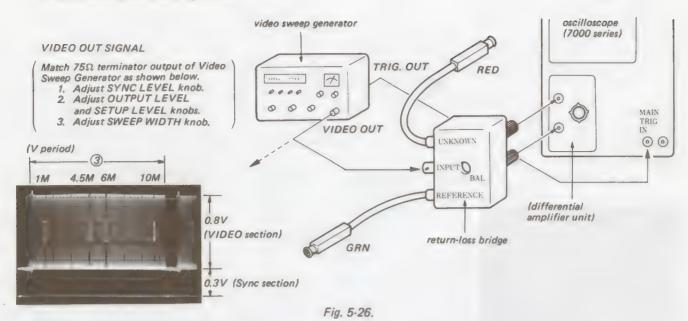
4 Return Loss Bridge (TEKTRONIX 015-0149-00)

return loss adjustment.

- 5 Video Sweep Generator
- 6 Oscilloscope (with Delay mode)
- (7) Tracking Scorp (TAKEDA RIKEN TR4120)
- 8 Video Frequency Delay Distortion Measurement Equipment
- 9 High Gain Video Amplifier
- 10 75 ohms terminator
- 11 Isolation Transformer
- (12) Vector Monitor (TEKTRONIX TYP602 Option Type 05)
- 13 Digital Voltmeter
- 14 Attenuator
- (15) Linearity Gauge (TEKTRONIX Linearity Graticule PN 331-0305-00)

Note: The measurement equipment whose item number is encircled should be the one specified above.

1. INPUT Terminal Return-loss Adjustment



- 1. Complete the connections as shown in Fig. 5-26.
- Set the +INPUT of the 7A13 unit to DC and connect the
 -INPUT to GND. (Check that the video section of the
 sweep signal is 0.4Vp-p.)
- Set the -INPUT of the 7A13 unit to DC and set the VOLT/DIV knob to the 1mV range. Adjust the BAL on the return-loss bridge for minimum output waveform on the oscilloscope. (See Fig. 5-27.)
- Disconnect the 75 ohm terminator on the UNKNOWN (red) side of the return-loss bridge. Connect the terminator to the VIDEO A terminal of the BVM-1201 with the cable. (See Fig. 5-28.)
- Turn on the power of the BVM-1201. Set the INPUT switch to the A position and the SYNC switch to the INT position.
- Adjust CV1 on the Q board for minimum output waveform (but it should be below 2mVp-p in a range of 0 to 10MHz)
- Turn off the power of the BVM-1201 and confirm the output waveform is below 2mVp-p in a range of 0 to 10 MHz.
- Perform each adjustment of the VIDEO B (CV3), EXT SYNC (CV5), R (CV6), G (CV8), and B (CV10) terminals in the similar procedure.

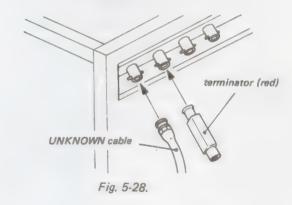
INPUT switch setting should be as below.

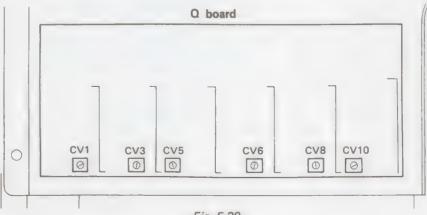
For VIDEO B terminal adjustment B
For R, G, or B terminal adjustment RGB



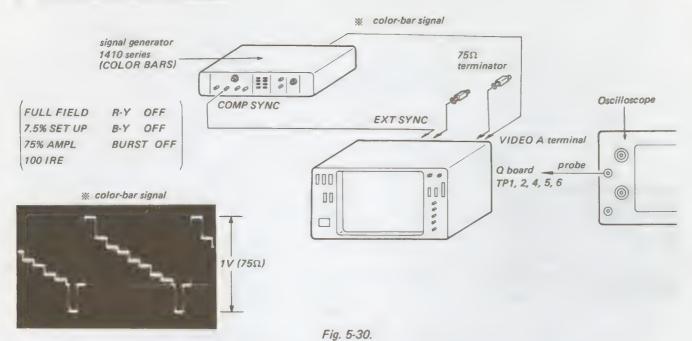
Adjust BAL of return-loss bridge so that marked with ** becomes as flat as possible in a range of 0 to 10MHz and minimum (below 1mVp-p).

Fig. 5-27.





2. Q Board Input Circuit Level Adjustment



- 1. Complete the connections as shown in Fig. 5-30.
- Turn on the power. Set the INPUT switch to A and the SYNC switch to EXT.
- Connect the probe of the oscilloscope to TP 1 on the Q board. Adjust the vertical amplitude (VOLTS/DIV, VAR knobs) of the oscilloscope so that the output waveform is on the full scale. (See Fig. 5-31.)
- Remove the color-bar signal and the 75Ω terminator from the VIDEO A terminal, connect them to the VIDEO B terminal.
- 5. Connect the oscilloscope probe to TP 2. Adjust RV 1 on the Q board so that the output waveform at TP 2 matches the scale on which the waveform at TP 1 observed in Step 3 matched. (i.e., make the output waveform level at TP 2 same with that at TP 1.)
- 6. Match the Q board outputs of the R, G, and B circuits in the same procedure.

| Circuit | Test Point | Adjusting VR |
|-----------|------------|--------------|
| R circuit | TP 4 | RV 2 |
| G circuit | TP 5 | RV 3 |
| B circuit | TP 6 | RV 4 |

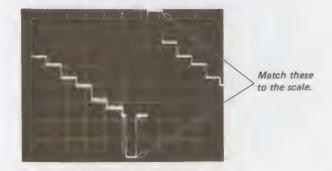
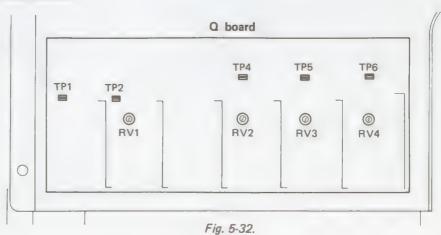


Fig. 5-31.



Q Board Input Circuit Frequency Characteristic Adjustment

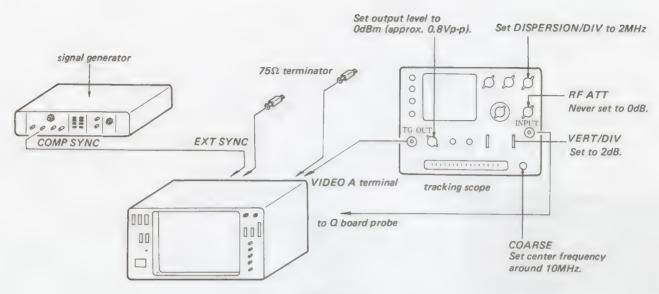
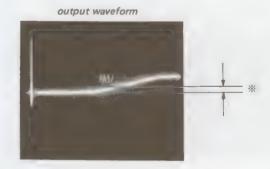


Fig. 5-33.

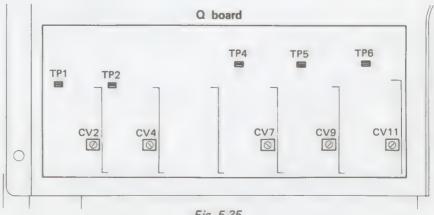
- 1. Complete the connections as shown in Fig. 5-33.
- Connect the tracking scope probe to the THROUGH-OUT of the 75 Ω terminator connected to the VIDEO A terminal of the machine.

Check that the output waveform on the tracking scope is flat in a range of 0 to 10MHz. (Probe correction)

- 3. Turn on the power of the BVM-1201. Set the SYNC switch to EXT and the INPUT switch to A.
- 4. Connect the probe to TP 1 on the Q board and adjust CV 2 so that the output waveform becomes flat in a range of 0 to 8 MHz. (See Fig. 5-34.)
- 5. Connect the TG OUT and the 75 Ω terminator to the VIDEO B terminal and set the INPUT switch to B. Connect the probe to TP 2 and adjust CV 4 in the same
- way as in the VIDEO A circuit. Adjust R (TP 4, CV 7), G (TP 5, CV 9), B (TP 6, CV 11) circuits in the same way. (Set the INPUT switch to RGB.)



₩ Within 0.5dB in a range of 0 to 8MHz Fig. 5-34.



Q Board Clamp Pulse Width Adjustment

- Complete the connections as shown in Fig. 5-36.
 Turn on the power of the BVM-1201. Set the INPUT switch to RGB and the SYNC switch to INT.
- 3. Adjust RV 5 on the Q board for a clamp pulse width of 3 μs. (See Fig. 5-37.)

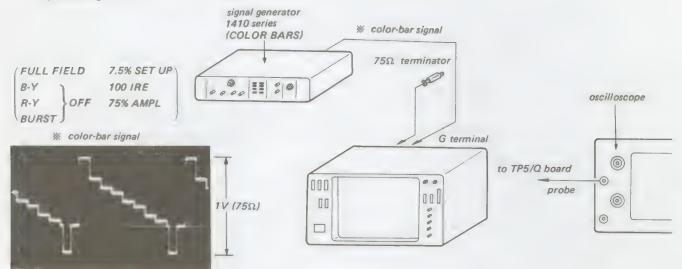


Fig. 5-36.

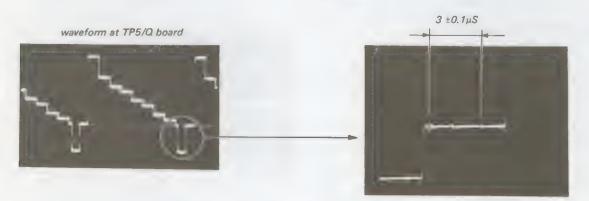


Fig. 5-37.

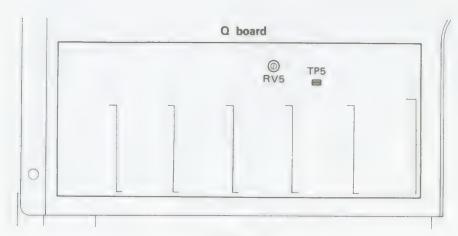


Fig. 5-38.

5. BA Board 3.58 MHz OSC Amplitude Adjustment

- 1. Complete the connections as shown in Fig. 5-39.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- 3. Turn L4 on the BA board for maximum amplitude of the 3.58 MHz waveform. (Note that it should be 1.2 ± 0.3 Vp-p.) (See Fig. 5-40.)

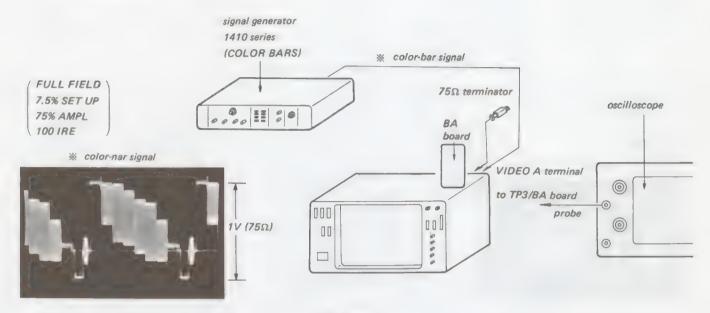


Fig. 5-39.

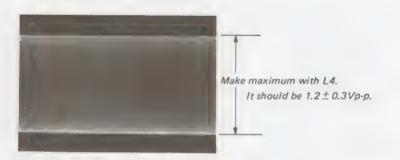


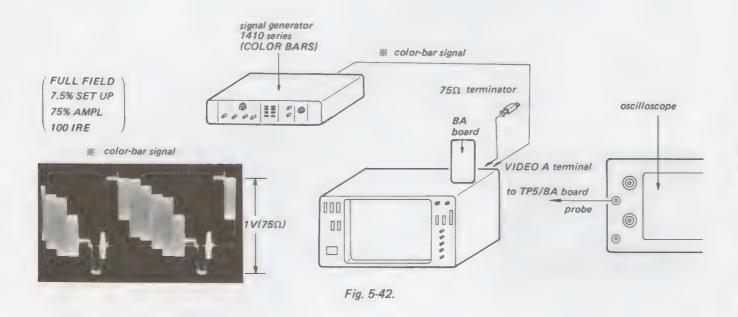
Fig. 5-40.

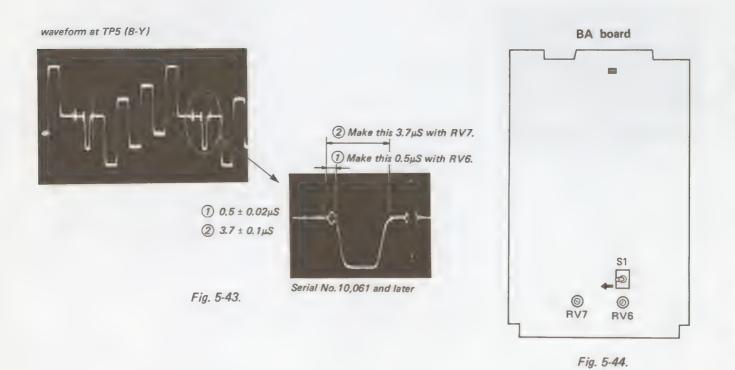


Fig. 5-41.

6. BA Board Burst Gate Pulse Width Adjustment

- 1. Complete the connections as shown in Fig. 5-42.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- 3. Turn SI in the direction indicated by the arrow.
- 4. Adjust the burst gate pulse width with RV 6 and RV 7 on the BA board. (See Fig. 5-43.)





7. BA Board Color Difference Low Pass Filter Adjustment

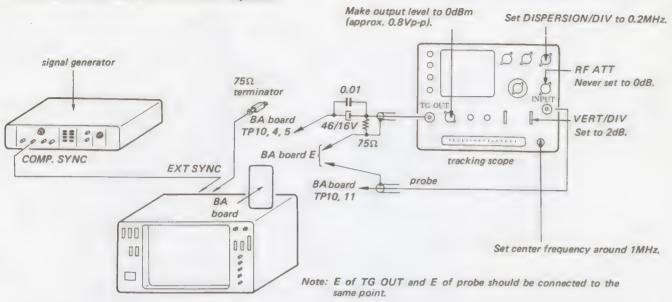


Fig. 5-45.

- 1. Complete the connections as shown in Fig. 5-45.
- Connect the TG OUT of the tracking scope to TP 10 on the BA board via a capacitor and the probe also to TP 10. (See Fig. 5-45.)
 Check that the output waveform on the tracking scope is
- flat in a range around 0 to 2 MHz. (Probe correction)

 3. Turn on the power of the BVM-1201 and set the SYNC
- switch to EXT.
 4. Connect the probe to TP 4 and adjust L5 so that the low
- pass filter frequency characteristic is -3 dB at 1.2 MHz. (See Fig. 5-46.)

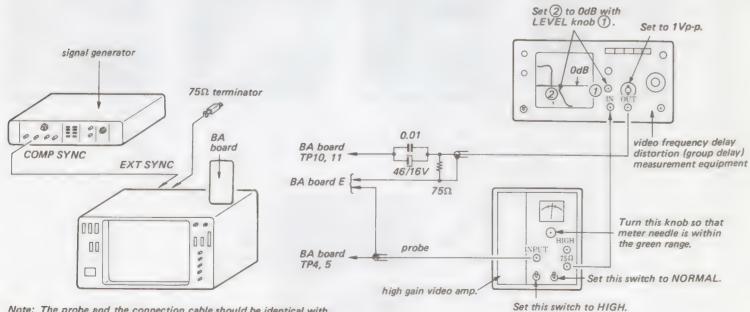
 5. Disconnect the TG OUT signal from TP 10 and connect it
- to TP 11. Connect the probe to TP 5.

 Adjust the B-Y low pass filter frequency characteristic with using L7 in the same procedure as in Step 4.

Output waveform at TP4 & 5



Fig. 5-46.



Note: The probe and the connection cable should be identical with those used in Fig. 5-45.

Fig. 5-47.

- 6. Complete the connections as shown in Fig. 5-47.
- Connect the output of the group delay measurement equipment to TP 10 on the BA board via a capacitor and the probe to TP 4. (See Fig. 5-47.)
- 8. Turn L6 for the adjustment of the group delay characteristic of the R-Y low pass filter. (See Fig. 5-48.) (Make the flat section extend as much as possible.)
- Disconnect the signal connected to TP 10 and connect it to TP 11. Connect the probe to TP 5.
- Turn L8 for the adjustment of the B-Y low pass filter in the same way as in Step 8.
- 11. Change the connections as shown in Fig. 5-45.
- 12. Confirm the frequency characteristics (in Steps 4 and 5).







Fig. 5-48.

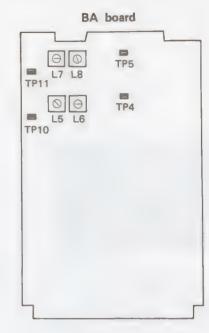


Fig. 5-49.

7. BA Board Color Difference Low Pass Filter Adjustment

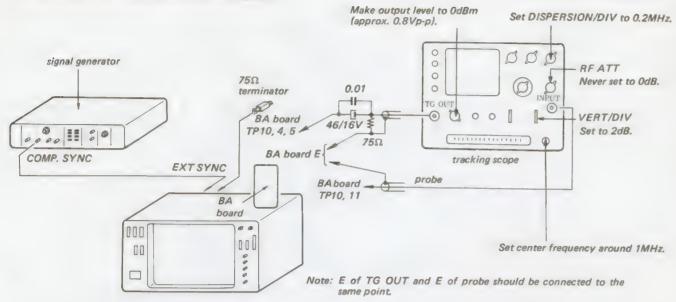


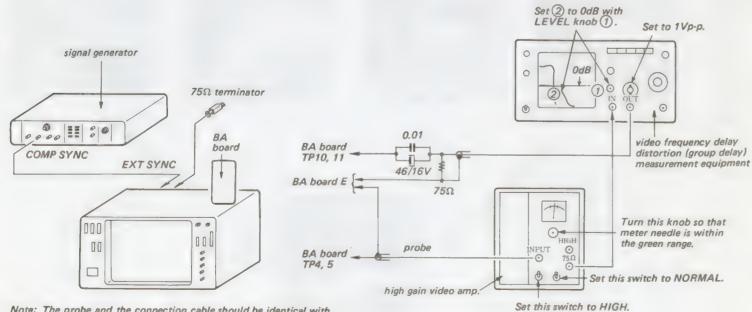
Fig. 5-45.

- 1. Complete the connections as shown in Fig. 5-45.
- Connect the TG OUT of the tracking scope to TP 10 on the BA board via a capacitor and the probe also to TP 10. (See Fig. 5-45.)
 Check that the output waveform on the tracking scope is flat in a range around 0 to 2 MHz. (Probe correction)
- Turn on the power of the BVM-1201 and set the SYNC switch to EXT.
- Connect the probe to TP 4 and adjust L5 so that the low pass filter frequency characteristic is −3 dB at 1.2 MHz. (See Fig. 5-46.)
- Disconnect the TG OUT signal from TP 10 and connect it to TP 11. Connect the probe to TP 5.
 Adjust the B-Y low pass filter frequency characteristic with using L7 in the same procedure as in Step 4.

Output waveform at TP4 & 5



Fig. 5-46.



Note: The probe and the connection cable should be identical with those used in Fig. 5-45.

Fig. 5-47.

- 6. Complete the connections as shown in Fig. 5-47.
- 7. Connect the output of the group delay measurement equipment to TP 10 on the BA board via a capacitor and the probe to TP 4. (See Fig. 5-47.)
- Turn L6 for the adjustment of the group delay characteristic of the R-Y low pass filter. (See Fig. 5-48.) (Make the flat section extend as much as possible.)
- Disconnect the signal connected to TP 10 and connect it to TP 11. Connect the probe to TP 5.
- Turn L8 for the adjustment of the B-Y low pass filter in the same way as in Step 8.
- 11. Change the connections as shown in Fig. 5-45.
- 12. Confirm the frequency characteristics (in Steps 4 and 5).







Fig. 5-48.

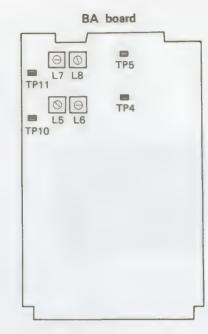
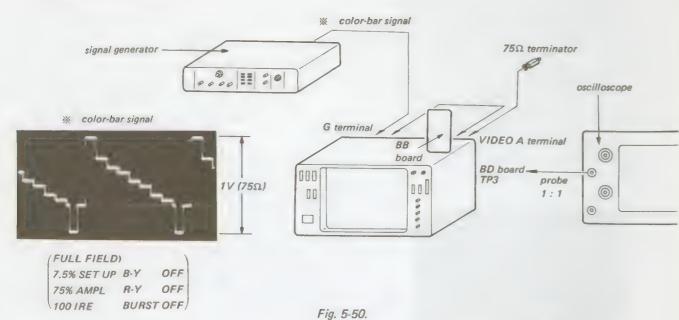


Fig. 5-49.

8. BB Board Y Level Adjustment



- 1. Complete the connections as shown in Fig. 5-50.
- Turn on the power of the BVM-1201. Set the INPUT switch to RGB and the SYNC switch to INT.
- 3. Connect the probe (of 1:1) to TP 3 on the BD board and set the oscilloscope sensitivity to 10mv/Div.
- Set the BRIGHTNESS knob to MIN. (just before the detent position) and turn the CONTRAST knob for matching the BRT pulse and 100 IRE level. (See Fig. 5-51.)
- Set INPUT switch to A position and adjust RV4 on BB board for matching the BRT pulse and 100 IRE level.



Fig. 5-52.

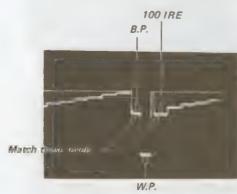


Fig. 5-51.



Fig. 5-53.

9. BB Board Y System Frequency Characteristic Adjustment

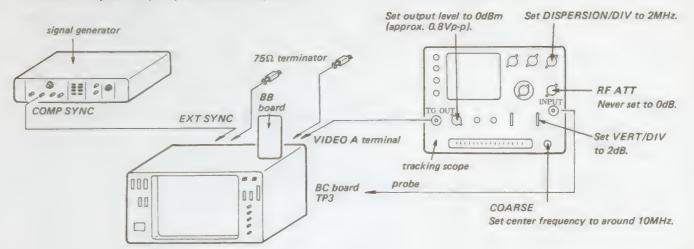
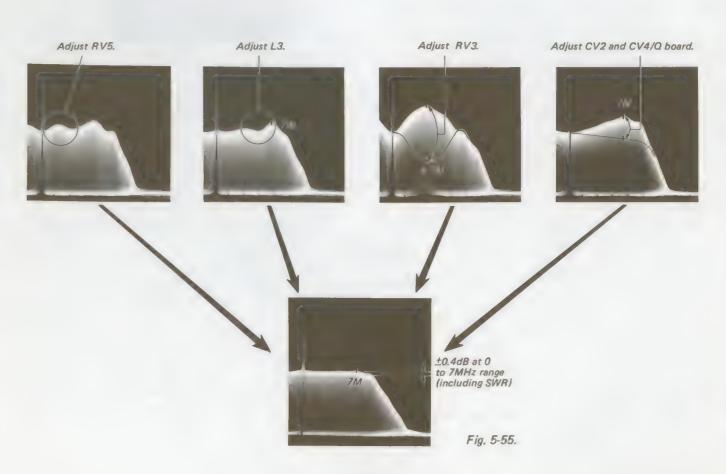


Fig. 5-54.

- 1. Complete the connections as shown in Fig. 5-54,
- 2. Connect the probe to the through out of the 75 Ω terminator connected to the VIDEO A terminal of the BVM-1201.
 - Check that the output waveform is flat in a range of 0 to 10MHz. (Probe correction)
- Turn on the power of the BVM-1201. Set the INPUT switch to A, the SYNC switch to EXT, and the MODE switch to B/W. (Set the APEATURE knob to the detent position... fully counterclockwise position.)
- Adjust RV 3, RV 5, and L3 on the BB board and CV2 on the Q board so that the frequency characteristic of the delay line is flat (SWR is minimum) in a range of 0 to 7 MHz. (See Fig. 5-55.)
- Connect the TG OUT signal and the 75 Ω terminator to the VIDEO B terminal and set the INPUT switch to B.
- 6. Adjust CV4 on the Q board in the same way as in Step 4.



7. Complete the connections as shown in Fig. 5-56.

10. Complete the connections as shown in Fig. 5-58. 11. Turn on the power of the BVM-1201. Set the INPUT

switch to A and the SYNC switch to INT.

- 8. Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- 9. Adjust L1 on the BB board for minimum 3.58 MHz component. (3.58 MHz trap adjustment) (See Fig. 5-57.)

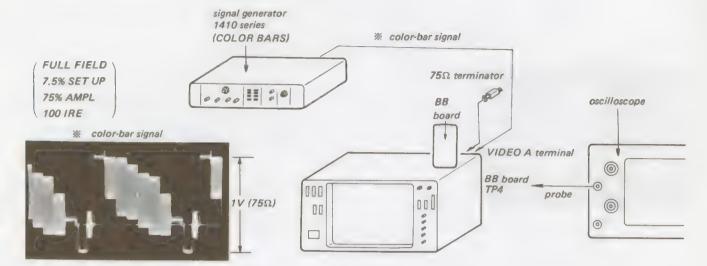


Fig. 5-56.

waveform at TP-4

Adjust L1 for minimum 3.58MHz component.



Fig. 5-57.

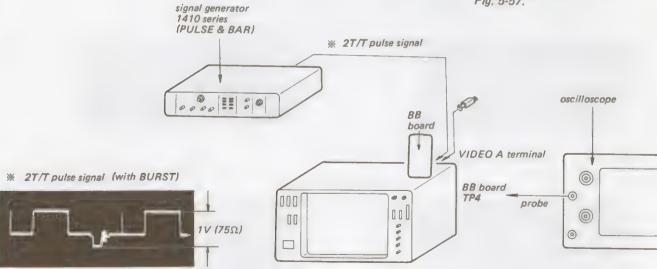
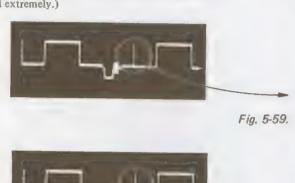


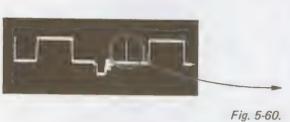
Fig. 5-58.

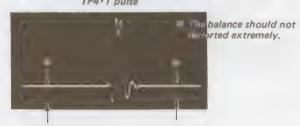
12. Turn L2 on the BB board for adjusting the TP 4 waveform as shown in Fig. 5-59. (2T pulse correction adjustment)

13. Change the input signal to the T pulse from the 2T pulse and check that the TP 4 waveform is almost the same as the one shown in Fig. 5-60. (The balance should not be unbalanced extremely.)



TP4-2% pulse djust L2 so that A TP4 · T pulse





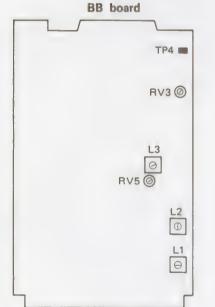




Fig. 5-61.

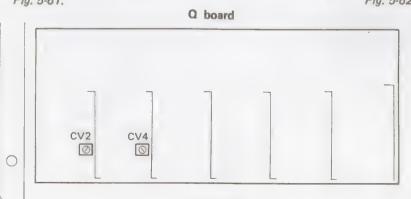


Fig. 5-63.

7. Complete the connections as shown in Fig. 5-56.

10. Complete the connections as shown in Fig. 5-58.11. Turn on the power of the BVM-1201. Set the INPUT

switch to A and the SYNC switch to INT.

- 8. Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT
- switch to A and the SYNC switch to INT.

 9. Adjust L1 on the BB board for minimum 3.58 MHz component. (3.58 MHz trap adjustment) (See Fig. 5-57.)

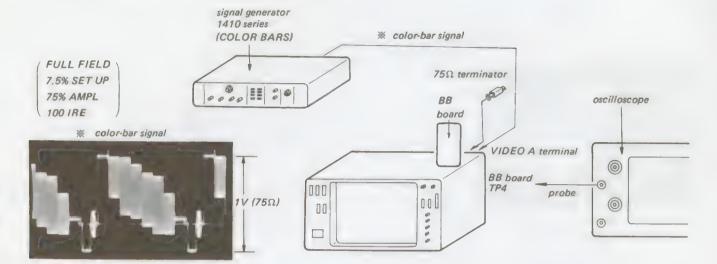


Fig. 5-56.

waveform at TP-4

Adjust L1 for minimum 3.58MHz component.



Fig. 5-57.

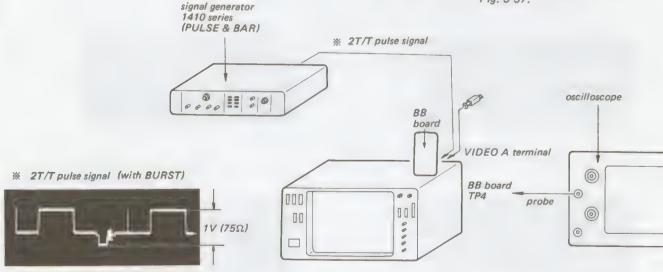
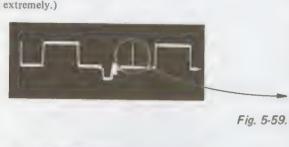


Fig. 5-58.

 Turn L2 on the BB board for adjusting the TP 4 waveform as shown in Fig. 5-59. (2T pulse correction adjustment)

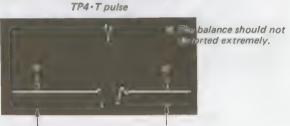
13. Change the input signal to the T pulse from the 2T pulse and check that the TP 4 waveform is almost the same as the one shown in Fig. 5-60. (The balance should not be unbalanced extremely.)

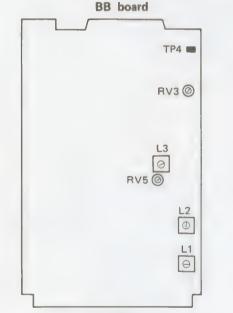


Acjust L2 so that A a agual to B.

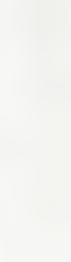
TP4 · 2% pulse











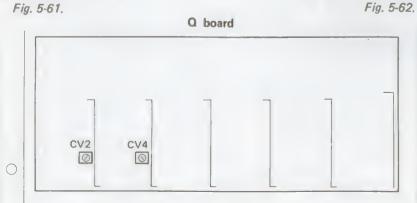
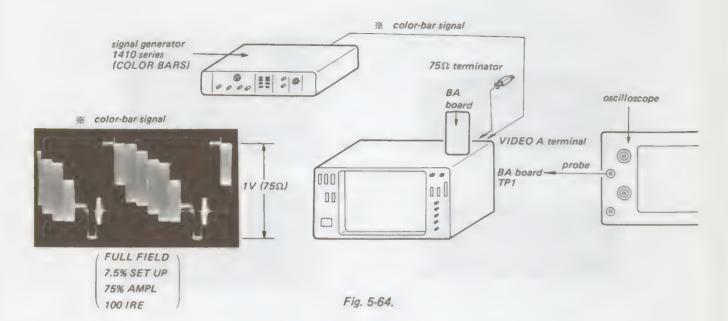


Fig. 5-60.

Fig. 5-63.

10. BA Board Band Pass Amplifier Adjustment



- 1. Complete the connections as shown in Fig. 5-64.
- 2. Turn on the POWER switch on the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- 3. Turn L1 on the BA board so that the output waveform amplitude of the oscilloscope is maximum. Since the turning angle of the L is large for the maximum amplitude, set the L to around its mechanical center in the maximum range of the amplitude. (See Fig. 5-65.)
- 4. Adjust RV 1 on the BA board so that the output waveform of the oscilloscope is 0.2Vp-p. (See Fig. 5-65.)

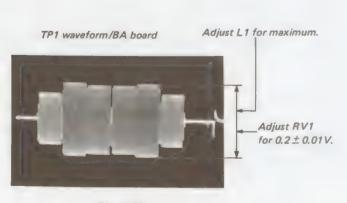


Fig. 5-65.

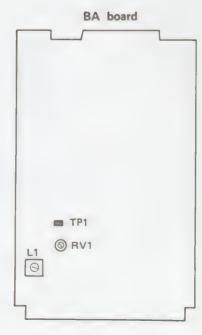
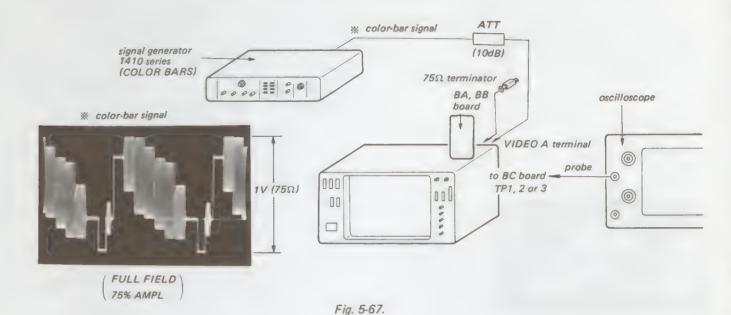


Fig. 5-66.

11. Color Difference Phase and Level Adjustments



R-Y and B-Y Phase Adjustment

- 1. Complete the connections as shown in Fig. 5-67. (Set
- 2. Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT. Connect the probe to TP 1 on the BC board.
- 3. Set the oscilloscope sensitivity to 50mV/DIV, the HUE knob of the BVM-1201 to its detent (fully counterclockwise) position, and the RV5 on the BA board to the mechanical center.
- 4. Cut off the R-Y and the Y signals of the signal generator and turn the SUB HUE control for a flat output waveform. (See Fig. 5-68.)
- 5. Set ATT to 10dB and turn RV5 on the BA board for a flat output waveform.

- 6. Extract ATT (0dB) and turn SUB HUR control for a flat output waveform.
- 7. Repeat Steps 5 and 6 three times and check that the SUB HUE control is almost at the mechnical center.
- 8. Connect the probe to TP 3 on the BC board. Feed in the R-Y signal from the signal generator and disconnect the B-Y signal. (The Y signal remains in OFF.)
- 9. Turn RV2 on the BA board for a flat output waveform. (See Fig. 5-69.)

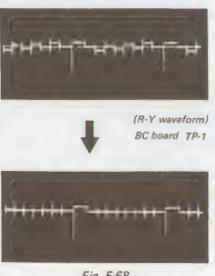
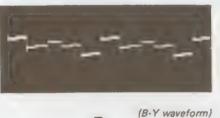


Fig. 5-68.



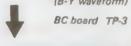




Fig. 5-69.

R-Y and B-Y Level Adjustments

- 1. Complete the connections as shown in Fig. 5-67.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.

TP1 R · OUT waveform





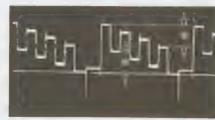
Adjust RV3 for R-Y level.



Fig. 5-70.

- Connect the probe to TP 1 on the BC board and turn RV 3 on the BA board for adjusting the R-Y level as shown in Fig. 11-5.
- Connect the probe to TP 3 on the BC board and turn RV 4 on the BA board for adjusting the B-Y level as shown in Fig. 11-6.

TP3 B · OUT waveform



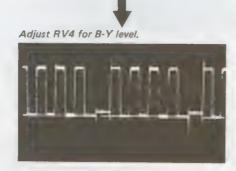
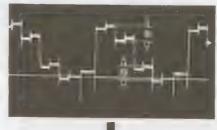


Fig. 5-71.

G-Y Phase and Level Adjustments

- 1. Complete the connections as shown in Fig. 5-67.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- Connect the probe to TP 2 on the BC board and turn RV 2 on the BB board for adjusting the G-Y phase as shown in Fig. 5-72.
- 4. Turn RV 1 on the BB board for adjusting the G-Y level as shown in Fig. 5-72.

TP2 G · OUT waveform





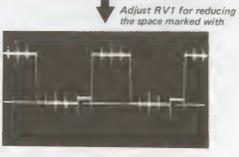
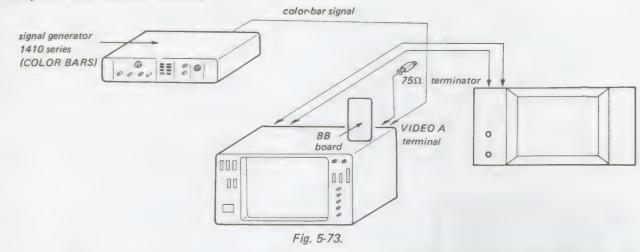


Fig. 5-72.

Vector Out Adjustment

1. Complete the connections as shown in Fig. 5-73.



- 2. Connect the R-Y output to the Y terminal of the vector scope and the B-Y output to the X terminal.
- 3. Adjust the vector output with RV6 (R-Y) and RV7 (B-Y) on the BB board, (See Fig. 5-74.)

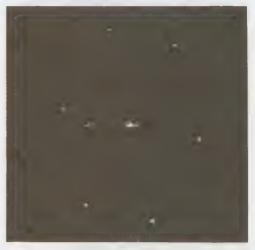
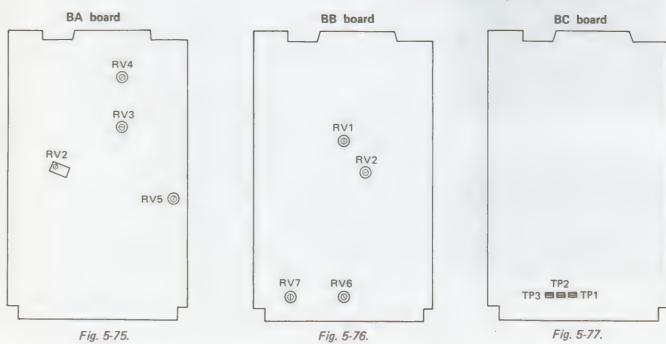


Fig. 5-74.



12. Color Difference Clamp Pulse Adjustment

- 1. Complete the connections as shown in Fig. 5-78.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- Adjust RV 6 on the BC board so that the pulse width of the color difference clamp pulse is 2 μS and turn RV 5 for adjusting the phase. (See Fig. 5-79.)

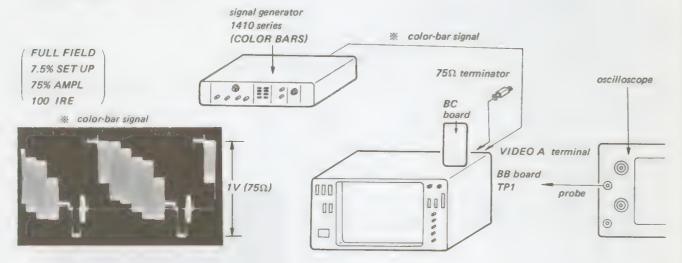


Fig. 5-78.

BB board TP1 B-Y waveform

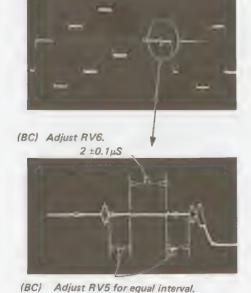


Fig. 5-79.



13. Bright and White Clamp Pulses Adjustment

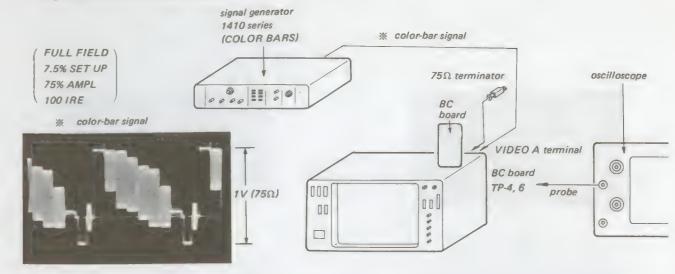
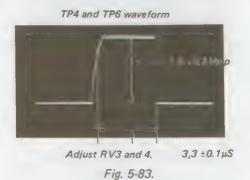


Fig. 5-82.

- 1. Complete the connections as shown in Fig. 5-82.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- 3. Connect the probe to TP 4 on the BC board and adjust RV 3 for a BRT CLAMP PULSE width of 3.3 μ S. Check that the pulse voltage is 7.5 \pm 0.5 Vp-p. (See Fig. 5-83.)
- 4. Connect the probe to TP 6 on the BC board, adjust RV 4 for a WHITE CLAMP PULSE width of 3.3 μ S, and check that the pulse voltage is 7.5 \pm 0.5 Vp-p. (See Fig. 5-83.)



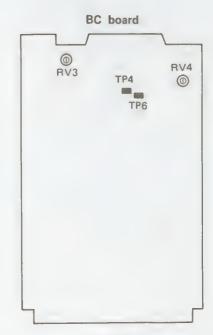


Fig. 5-84.

14. BC Board SETUP Adjustment signal generator 1410 series (COLOR BARS) **%** 7.5% flat signal 75Ω terminator 7.5% SET UP R-Y OFF 0000 == 00 B-Y OFF oscilloscope BC Y OFF board **※** 7.5% flat signal VIDEO A terminal G (0) 0 000 probe 000 00 1:1 0

Fig. 5-85.

- 1. Complete the connections as shown in Fig. 5-85.
- Turn on the power of the BVM-1201. Set the INPUT switch to RGB and the SYNC switch to INT.
- Set the oscilloscope sensitivity to 5mV/DIV (with the 1:1 probe used), connect the probe to TP 1, TP 2, and TP 3 on the BC board in turn, and select the test point for the lowest 7.5% SETUP signal from the screening level.
- 4. Turn RV 2 on the BC board for adjusting the output from the test point selected in Step 3 as shown in Fig. 5-86.
- Set the INPUT switch to A and the MODE switch to AUTO.
- Adjust RV 1 on the BC board in the same procedures as in Steps 3 and 4.
- 7. Set the MODE switch to B/W and confirm that the SETUP level is within the specified value. (See Fig. 5-87.)

SUB BRIGHTNESS CONTROL Adjustment

- Connect the probe to TP 8 on the BC board and set the oscilloscope sensitivity to 0.5V/DIV.
- 9. Set the oscilloscope sensitivity to 5mV/DIV.
- Adjust the SUB BRIGHTNESS control so that the TP-8 waveform becomes flat. (See Fig. 5-88.)

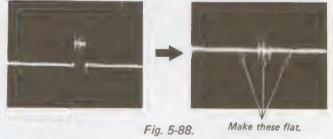




Fig. 5-89.

TP2

TP8

RV1

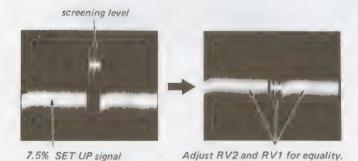
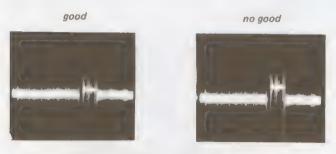
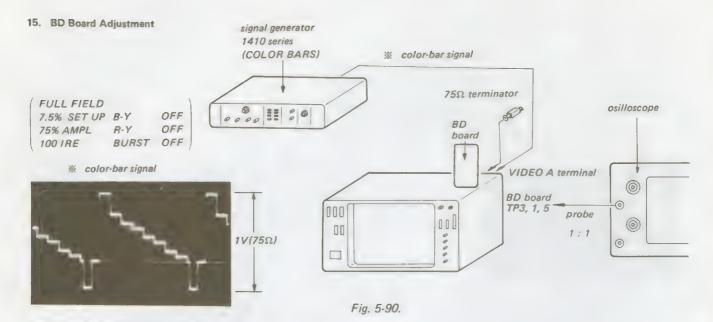


Fig. 5-86.



The screening signal should be on the 75% setup signal.

Fig. 5-87.

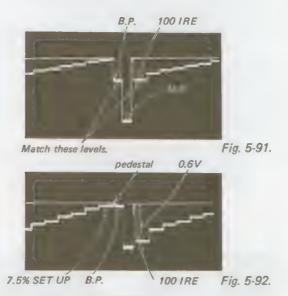


BRT PULSE LEVEL Adjustment

- 1. Complete the connections as shown in Fig. 5-90.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- Connect the probe (of 1:1) to TP 3 on the BD board and set the oscilloscope sensitivity to 10 mV/Div.
- Set the BRIGHTNESS knob to MIN (before the detent point) and turn the CONTRAST knob for matching the BRT pulse and the 100 IRE level. (See Fig. 5-91.)
- 5. Connect the probe to TP 1 and turn RV 1 for matching the BRT pulse and the 100 IRE level.
- Connect the probe to TP 5 and turn RV 2 for the same adjustment.

CONTRAST LEVEL Adjustment

- Set the BRIGHTNESS and the CONTRAST knobs to the preset position and connect the oscilloscope to TP 3 on the BD board.
- Set the SUB CONTRAST control to the mechanical center.
- 9. Adjust RV7 on the BC board so that the 7.5% SETUP level and the 100 IRE level become 0.6V. (See Fig. 5-92.)



WHITE PEAK LIMITER Adjustment

- 10. Remove the 75 Ω terminator and turn the CONTRAST knob so that the 100 IRE and the following white level become equal. (See Fig. 5-93.)
- Connect the probe to TP 1 and adjust RV 3 for obtaining the identical waveform (which can be superimposed on with the dual trace) with the one at TP 3.
- 12. Connect the proble to TP 5 and perform the same adjustment with using RV 4.

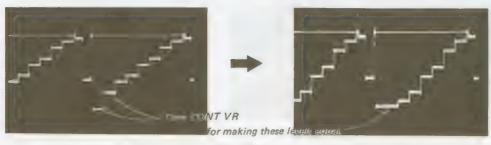
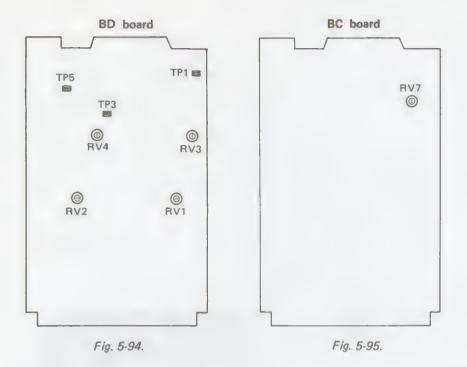
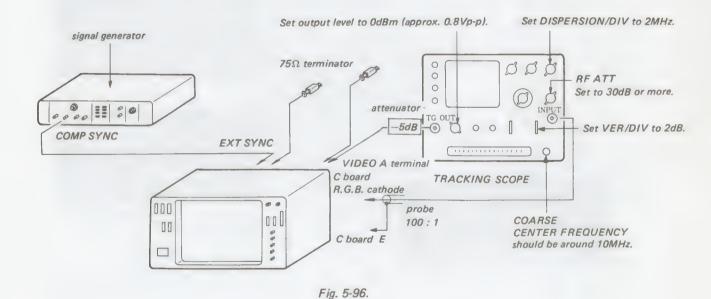


Fig. 5-93.



16. Over-all Friquency Adjustment



- 1. Complete the connections as shown in Fig. 5-96.
- 2. Connect the probe (of 100:1) to the through out of the 75 Ω terminator connected to the VIDEO A terminal of the BVM-1201. Check that the output waveform is flat in a range of 0 to 10MHz. (Probe correction)
- Turn on the power of the BVM-1201. Set the INPUT switch to A, the SYNC switch to EXT, the EXT MODE switch to B/W, and the BRIGHTNESS knob to fully clockwise position.

- 4. Connect the probe to the R. cathode terminal of the picture tube socket on the C board (E should be connected to E of the C board) and adjust CV1 on the BE board so that the overall frequency characteristic of the R circuit becomes flat in a range of 0 to 7 MHz. (See Fig. 5-97.)
- 5. Connect the TG OUT and the 75 Ω terminator to R terminal and set the INPUT switch to RGB.
- 6. Adjust CV7 on the Q board so that the output waveform becomes flat in a range of 0 to 8 MHz. (See Fig. 5-98.)
- 7. Connect the TG OUT and the 75 Ω terminator to the VIDEO A terminal and set the INPUT switch to A.
- Remove the probe to the G cathode terminal of the picture tube socket on the C board and turn CV2 on the BE board so that the overall frequency characteristic of the G circuit becomes flat in a range of 0 to 7 MHz. (See Fig. 5-97.)
- 9. Remove the TG OUT and the 75 Ω terminator to the G terminal and set the INPUT switch to RGB.
- 10. Adjust CV9 on the Q board so that the output waveform becomes flat in a range of 0 to 8MHz. (Fig. 5-98.)
- 11. Remove the TG OUT and the 75 Ω terminator to the VIDEO A terminal and set the INPUT switch to A.
- 12. Connect the probe to the B cathode terminal of the picture tube socket on the C board and adjust CV3 on the BE board so that the overall frequency characteristic of the B circuit becomes flat in a range of 0 to 7 MHz. (See Fig. 5-97.)
- 13. Remove the TG OUT and the 75 Ω terminator to the B terminal and set the INPUT switch to RGB.
- 14. Adjust CV11 on the Q board so that the output waveform becomes flat in a range of 0 to 8 MHz. (See Fig. 5-98.)

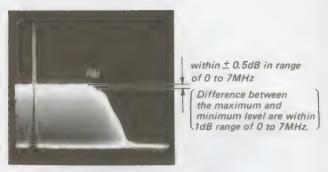


Fig. 5-97.

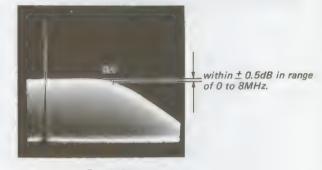


Fig. 5-98.

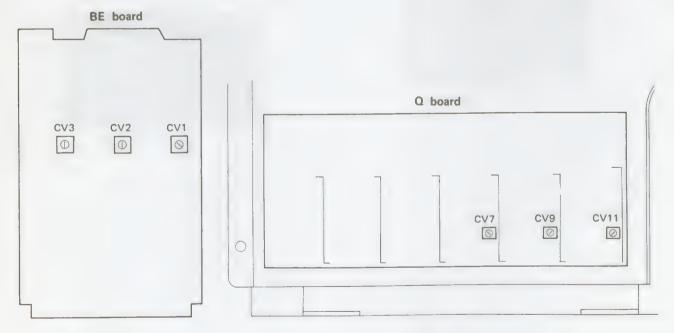
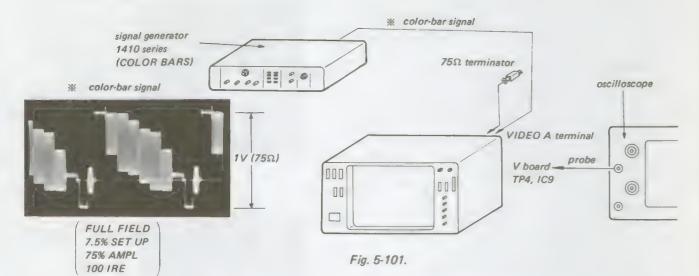


Fig. 5-99. Fig. 5-100.

17. V Board Adjustment



H. SYNC Pulse Width Adjustment

- 1. Complete the connections as shown in Fig. 5-101.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- Connect the oscilloscope probe to TP 4 board on the V board.
- 4. Adjust RV 2 for a pulse width of 6 μ S. (See Fig. 5-102.)



Fig. 5-102.

1/2H Pulse Width Adjustment

- 5. Connect the probe to Pin 1 of IC9 on the V board.
- 6. Set the trigger slope of the oscilloscope to \bigcirc .
- Set the oscilloscope to the DELAY mode and adjust RV 3 so that the rising sections of the pulses superimpose on each other completely as shown in Fig. 5-103.



Fig. 5-103.

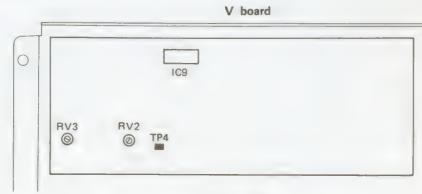
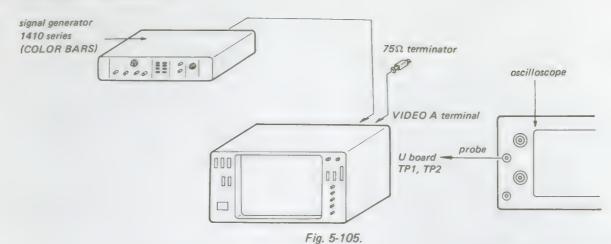


Fig. 5-104.

18. U Board Crosshatch Adjustment



1. Complete the connections as shown in Fig. 5-105.

 Turn on the power of the BVM-1201. Set the INPUT switch to A, the SYNC switch to INT, and the incorporated CROSSHATCH switch to ON for receiving the crosshatch.

Crosshatch H. Pulse Waveform Shaping

Connect the oscilloscope probe to TP 1 on the U board.
 Turn L2 fully clockwise, turn it gradually counterclockwise.

Turn L2 fully clockwise, turn it gradually counterclockwise, and set it at the point where the falling hump of the pulse waveform vanishes. (See Fig. 5-106.)

Crosshatch H. Pulse Width Adjustment

5. Adjust RV 2 for a pulse width of 0.18 µS. (See Fig. 5-107.)

Crosshatch H. BLK Width Adjustment

- 6. Connect the probe to TP 2.
- 7. Adjust RV 3 for an H.BLK width of 8 µS. (See Fig. 5-108.)

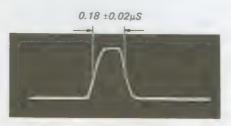
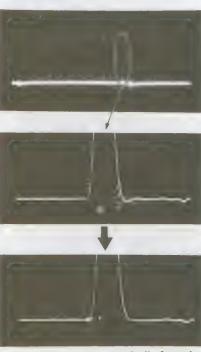


Fig. 5-107.



Fig. 5-108.

TP1 waveform



Adjust L2 by turning gradually from the right maximum position so that the interval marked by * become zero.

Fig. 5-106.

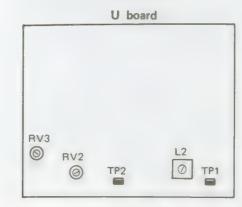
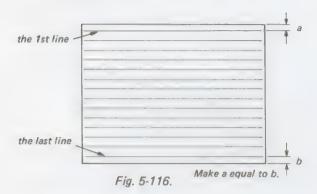
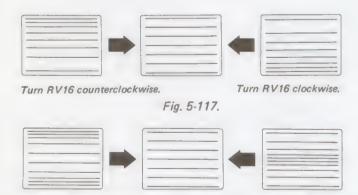


Fig. 5-109.

- (2) Make the BVM-1201 receive a crosshatch signal from the signal generator and present only H. lines.
- (3) Set up the UNDERSCAN mode.
- (4) Make the BVM-1201 show 14 H. lines and adjust the VERTICAL POSITION of the signal generator so that the space between the effective face edge of the picture tube and the first line is equal to the one between the effective face and the last line. (See Fig. 5-116.)



- (5) Set up the NORMAL SCAN mode.
- (6) Adjust RV 16 on the DA board so that the center of the 14 H, lines (between the 7th and 8th lines from the top or the bottom line) matches the mechanical center of the picture tube.
- (7) Put the center of the linearity gauge on the mechanical center of the picture tube and perform the following adjustments while observing the gauge.
- (8) Turn RV 15 on the DA board for matching the V. center.
- (9) Adjust RV3 on the E board for matching the V. size.
- (10) Turn RV 16 on the DA board for matching the S-letter tilt. (See Fig. 5-117.) (Make the upper and lower unbalanced portion of the S-letter correction symmetrical.)
- (11) Turn RV 19 on the DA board for S-letter correction. (See Fig. 5-118.)
- (12) Repeat Steps 8 to 11 for tracking.



Turn RV19 counterclockwise.

Turn RV19 clockwise.

Fig. 5-118.

H. Linearity Adjustment (Use the linearity gauge.)

 Make the BVM-1201 receive the crosshatch signal and show only V. lines.

- (2) Adjust RV 20 on the DA board for the H. pin distortion tilt. (See Fig. 5-119.)
- (3) Adjust RV 23 on the DA board for the H. pin distortion. (See Fig. 5-120.)

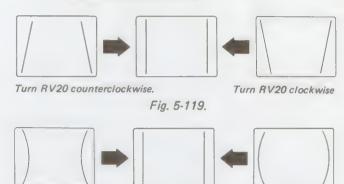


Fig. 5-120.

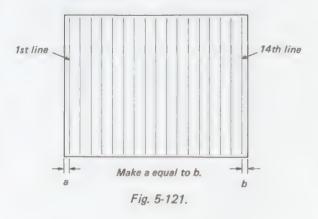
(4) Put a mark on the mechanical center of the picture

Turn RV23 clockwise.

tube. (See Fig. 5-115.)
(5) Set up the UNDERSCAN mode.

Turn RV23 counterclockwise.

- (6) Make the BVM-1201 show 17 V. lines. Adjust the HORIZONTAL POSITION of the signal generator so that the space between the effective picture edge of the picture tube and the first line is equal to the one between the edge and the 14th line. (See Fig. 5-121.)
- (7) Adjust L6 (H. LIN) on the E board so that the center line of the 14 lines (9th line from the left or the right) comes on the mechanical center of the picture tube.
- (8) Set up the NORMAL mode.
- (9) Put the linearity center gauge on the mechanical center of the picture tube. Perform the following adjustments while watching the gauge.
- (10) Turn RV4 on the E board for matching the H. center.
- (11) Turn RV6 (H. SIZE) on the E board for matching the right side of the screen.
- (12) Turn L6 (H. LIN) on the E board for matching the left side of the screen.
- (13) Repeat Steps (2), (3), and (9) through (12) for tracking.



19. Linearity Adjustment

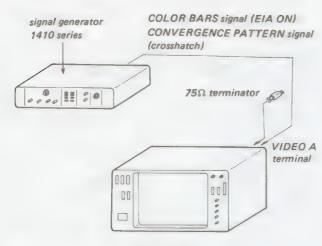


Fig. 5-110.

 Complete the connections as shown in Fig. 5-110 and turn on the power of the BVM-1201.

V. Lamp Adjustment

- Connect the oscilloscope probe to TP 1 on the D (DA) board.
- (2) Adjust RV 13 on the DA board so that the V. LAMP waveform is 12 Vp-p. (See Fig. 5-111.)



Fig. 5-111.

EXP. V. Center Adjustment

(Use the linearity gauge.)

- (1) Receive the crosshatch signal.
- (2) Set RV 15 (V. Center) on the DA board to its mechnical center.
- (3) Set up the EXP. mode (by turning on the V. DELAY switch) and turn RV 14 on the DA board for matching the V. center in the EXP. mode.
- (4) Change the mode to Normal and turn RV 15 on the DA board for matching the V. center in the Normal mode.
- (5) Repeat Steps (3) and (4) two or three times for tracking.

EXP. H Size Adjustment

- (1) Make the BVM-1201 receive the crosshatch signal.
- Set up the EXP, mode (turn on the V. DELAY switch).
- (3) Adjust RV27 on the DA board for the H size in the NORMAL mode.
- (4) Set up the NORMAL mode and confirm the H size.
- (5) Repeat Steps (2) to (4) two or three times for tracking.

V. Linearity Adjustment

1. V. Pin Distortion Adjustment

- Make the BVM-1201 receive a CONV. pattern signal and present only the H, lines on the screen.
- (2) Turn RV 1 and RV 2 on the E board fully clockwise.
- (3) Turn L2 on the E board for matching of a V. pin distorition phase. (See Fig. 5-112.)
- (4) Turn RV 1 on the E board for balancing the upper and lower V. pin distortion. (See Fig. 5-113.)
- (5) Turn RV 2 on the E board for matching the amplifier of the V. pin distortion. (See Fig. 5-114.)



Fig. 5-112.



Fig. 5-113.



Fig. 5-114.

- 2. Linearity Adjustment (Use the linearity gauge.)
 - (1) Put a mark on the mechanical center on picture tube face. (See Fig. 5-115.)

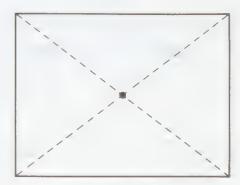


Fig. 5-115.

Note: For the linearity confirmation, gaze the linearity gauge in the manner that your eye is perpendicular to the gauge.

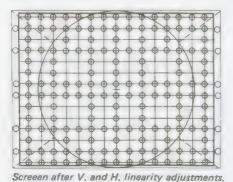


Fig. 5-122.

UNDER SCAN Linearity Adjustment

- Make the BVM-1201 receive the crosshatch signal and set up the UNDER SCAN mode.
- (2) Connect the digital voltmeter to the emitter of Q16 on the E board and adjust RV5 (U.S. H. SIZE) for a 81.0V dc reading.
- (3) Turn RV 22 on the DA board for adjusting the H. pin distortion in the UNDER SCAN mode.
- (4) Turn RV 18 on the DA board for adjusting the S-letter correction.
- (5) Turn RV 12 on the DA board so that the V. SIZE in the UNDER SCAN mode is "3" for the H. SIZE "4".
 - (See Fig. 5-123.) (i.e., make the ratio of the H. SIZE and the V. SIZE 4:3.)
- (6) Repeat Steps (3) to (5) for tracking.

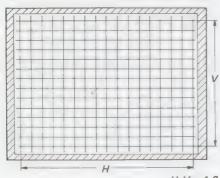


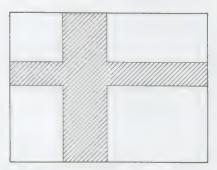
Fig. 5-123. H:V = 4:3

EXP. Linearity Adjustment

- (1) Turn on the CROSSHATCH switch (S 4) on the DA board to make the BVM-1201 receive the incorporated crosshatch signal, and set up the EXP. mode (turn on the V. DELAY switch).
- (2) Set RV 17 (EXP. S-LETTER) on the DA board to the mechanical center.
- (3) Turn RV 21 on the DA board for adjusting the H. pin distortion in the EXP mode.

H. FREQ. Adjustment

 Make the BVM-1201 receive the crosshatch signal and set the SYNC switch to EXT. (The picture flows.) (2) Adjust RV 24 on the DA board so that the picture becomes stationary or moves slowly. (See Fig. 5-124.)



Make picture stop or move slowly.

Fig. 5-124.

H. SYNC Pulse Width Adjustment

- (1) Make the BVM-1201 receive the crosshatch signal.
- (2) Connect the oscilloscope to TP 5 on the DA board. Adjust RV 26 on the DA board so that the H. SYNC pulse width becomes 5μS. (See Fig. 5-125.)

D board TP5 waveform

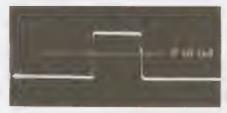


Fig. 5-125.

Picture Phase Adjustment

- (1) Turn RV10 on the E board fully counterclockwise.
- (2) Make the BVM-1201 receive the crosshatch signal, set up the UNDER SCAN mode, and set the BRIGHTNESS knob to MAX.
- (3) Adjust RV25 on the DA board so that the outside raster portions of the picture become equal to at the right and the left sides. (See Fig. 5-126.)
- (4) Set up the NORMAL SCAN and readjust the H. CENTER (with using RV4 on the E board).

Note: Since the picture phase is varied by the H. FREQ., H. SIZE, and H. BLK Pulse width, the H. FREQ., H. SIZE, and H. BLK pulse width should be readjusted after the picture phase adjustment when these are varied.

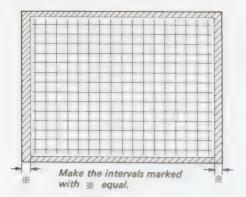


Fig. 5-126.

H. BLK Pulse Width Adjustment

- (1) Make the BVM-1201 receive the crosshatch signal and set up the UNDER SCAN mode.
- (2) Connect the oscilloscope probe to TP5 on the E board (its earth to TP6) and turn RV10 for adjusting the H. BLK pulse width. (See Fig. 5-127.)





Fig. 5-127.

DA board

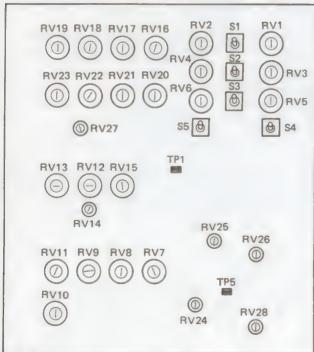
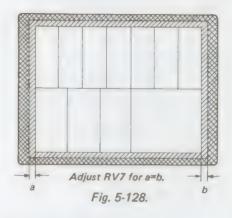


Fig. 5-129.

Note: Since the H. BLK pulse width is changed by the H. SIZE, the H. SIZE should be readjusted after the H. BLK pulse width adjustment when the H. SIZE is changed.

H. BLK Phase Adjustment

- Make the BVM-1201 receive the color-bar signal (turn on the EIA on the signal generator) and set up the UNDER SCAN mode.
- (2) Set the BRIGHTNESS knob to MAX. Adjust RV7 on the E board so that the blanking width at the right and the left sides are equal to. (See Fig. 5-128.)



AFC SLOW FAST Position Adjustment

- (1) Make the BVM-1201 receive the crosshatch signal.
- (2) Adjust RV28 on the DA board so that the picture position does not vary when the AFC switch is switched to FAST and SLOW.

E board

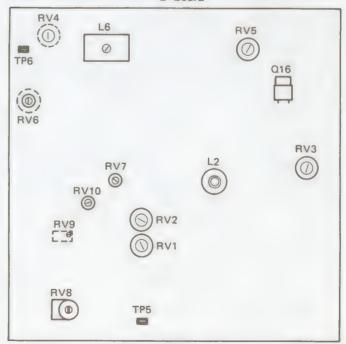
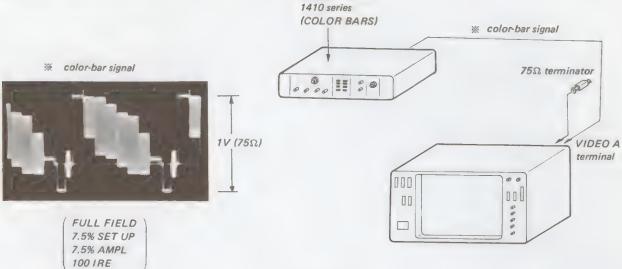


Fig. 5-130.

20. H DELAY Position Adjustment



signal generator

Fig. 5-131.

H. DELAY Position Adjustment

- 1. Complete the connections as shown in Fig. 5-131.
- Turn on the power of the BVM-1201. Set the INPUT switch to A and the SYNC switch to INT.
- Turn RV 1 on the V board in the H. DELAY and V. DELAY operations so that the H. DELAY position is as shown in Fig. 5-132.

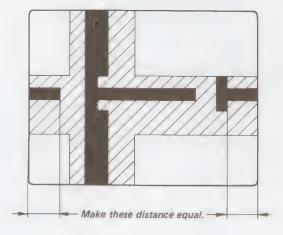


Fig. 5-132.

V board



Fig 5.133.

21. Crosshatch Adjustment

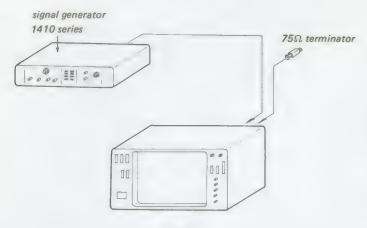


Fig. 5-134.

- 1. Complete the connections as shown in Fig. 5-134.
- Turn on the power of the BVM-1201. Set the INPUT switch to A, the SYNC switch to INT, and the incorporated CROSSHATCH switch to ON for making the BVM-1201 receive the crosshatch signal.
- 3. Set up the UNDER SCAN mode.
- 4. Set the RV 1 on the U board to the mechanical center and turn L1 for obtaining 15 horizontal lines.
- 5. Set up the NORMAL SCAN.
- Adjust RV 1 and L1 so that the ratio of 12 horizontal portions and 9 vertical portions is approx. 4:3 and the horizontal positions becomes symmetrical. (See Fig. 5-135.)
- 7. Set up the UNDER SCAN mode and check that the 16th line is not observed at the right side.

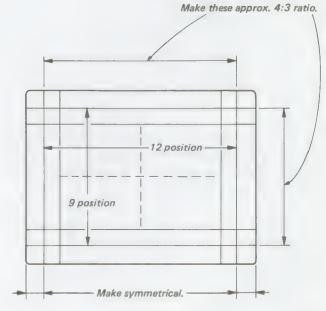


Fig. 5-135.

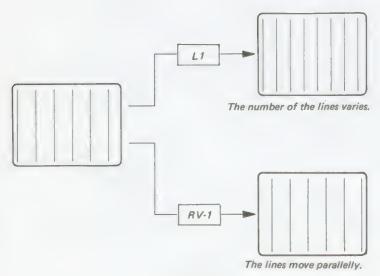


Fig. 5-136.

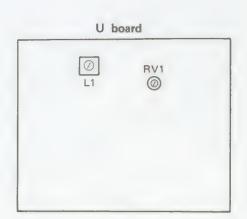


Fig. 5-137.

SECTION 6 DIAGRAMS

6-1. MOUNTING AND SCHEMATIC DIAGRAMS

Note: (for schematic diagrams)

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

- All capacitors are in μF unless otherwise noted, pF : μμF
 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. $k\Omega$: 1000 Ω ; $M\Omega$: 1000 $k\Omega$
- : nonflammable resistor.
- Δ : internal component.
- direct connection to points marked = on the
- panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by

 in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

(Refer to R40 and R41 adjustment on page 5-9 and R69 adjustment on page 5-5).

When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced () | Adjustment |
|----------------------------------------------------------------------|------------------------------------------|
| R43, R44, R53, R54, R58, R59, R69, R70, RV3 and IC3 on G board | R69 Adjustment on page 5-5 |
| R13, R18, R23, R24, R40, R41 and RV1 on P board HV block | R40 and R41 Adjustment on page 5-9 |

 When replacing the part in blow table, be sure to perform the related adjustment or check.

| Part replaced | Adjustment or Check | |
|-----------------------------------------------------------|------------------------------------------------------|--|
| D14 on P board | R40 and R41 Adjustment on page 5-9 | |
| D10, D11, D12, D13, Q6, R17, R18 and R73 on G board | Operation Check of +90 V Protector on page 5-7 | |

- Voltages are dc with respect to ground unless otherwise noted.
- Reading are taken with a 20,000-ohm-per-volt VOM.
- adjustment for repair.
- ----: B+ bus.
- ---: 8- bus.
- Readings and waveforms are taken with a color-bar signal input.
- Switches and controls are set as follows unless otherwise noted.

| INPUT switch | A |
|------------------------|-----------------------|
| SYNC switch | INT |
| MODE switch | AUTO |
| UNDER SCAN switch | OFF |
| DELAY-V switch | OFF |
| DELAY-H switch | OFF |
| BLUE ONLY switch | OFF |
| AFC switch | FAST |
| | |
| HUE control | |
| CHROMA control | PRESET position |
| BRIGHTNESS control > (| fully counterclock- |
| CONTRAST control | vise locked position) |

• 🔆 : selected to yield optimum performance.

APERTURE control

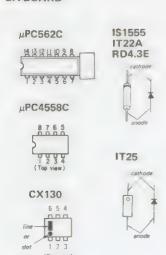
Note: (for mounting diagrams)

6-1

- o— : parts extracted from the component side.
- - ; parts extracted from the conductor side.
- part mounted on the conductor side.
- \otimes : Through hole.
- : Conductor side pattern
- 100001 : Component side pattern

6-2

BA BOARD



1 2 3 4 5 6 7 (Top view)

SN74LS00N SN74LS26N



2SA844 2SA1027R



2SC403



2SK23A



2SK43





① 0.2 Vp-p (H)



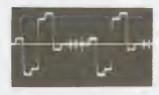
① 0.72 Vp-p (H)



12 0.44 Vp-p (H) 15 1.7 Vp-p (H) 16 0.46 V p-p (H)



18 2.1 Vp-p (H)



13 0.9 Vp-p (H)



19 11 Vp-p (H)



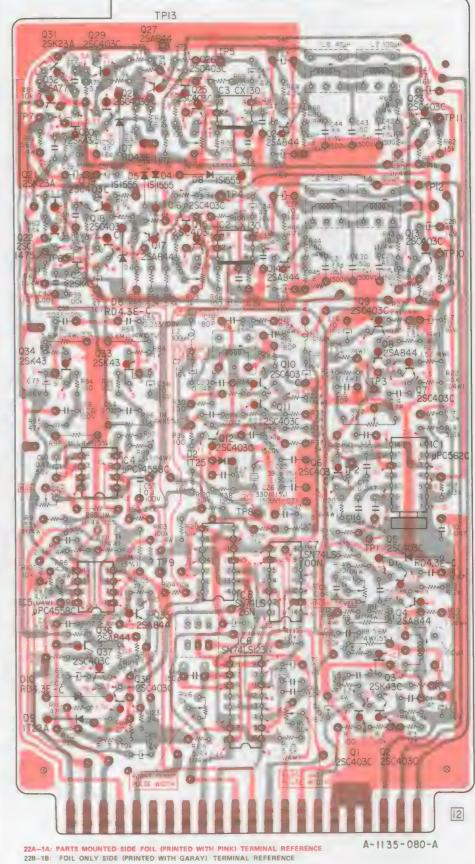
14 1.5 Vp-p (H)



20 5.6 Vp-p (H)

ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED. ALL 1/4W CARBON RESISTOR'S TOLENANCE ARE ±1% UNLESS OTHERWISE NOTED. REFERENCE NUMBERS IN THE PARTS LIST ARE CODED FROM 1001.

| IC | Q | D | ADJ |
|-----|----------------------------------------------|-------|------------|
| | | | |
| 3 | 31 29 26 27 32 28 25 30 24,23 | 7 | L8,L7 |
| | | | RV4 |
| | 21 19 16 | 5,4,8 | L6, |
| 2 | 22 i7 18,15 20 14,13 | 6 | RV3 |
| | 9 8 7 34,33 | | L4 |
| | 12 | | RV2 |
| 4 1 | 6 | 2 | RV |
| 8 | | ł | |
| 5 7 | 5 4 35 | | RVI |
| | 36 3 | | LI |
| 6 | 38 1,2 | 9 | RV6 RV7 |
| IC | | D | ADJ |
| | Q | | |



- BA Board -

Note: • Reference numbers on the BA board are of the 1000 series. (i.e., R1:R1001, C1:C1001, etc.)

See page 6-1 for other notes.

BB BOARD

μPC4558C



CX130



CX718D



SN74LS26N TA7158P



2SA844 2SA1027R



2SC403C



2SK43



IS1555 RD4.3E RD5.1E RD6.2E **RD8.2E**





21 1.5 Vp-p (H)



23 0.84 Vp-p (H)



23 1.8 Vp-p (H)



24 4.5 Vp-p (H)



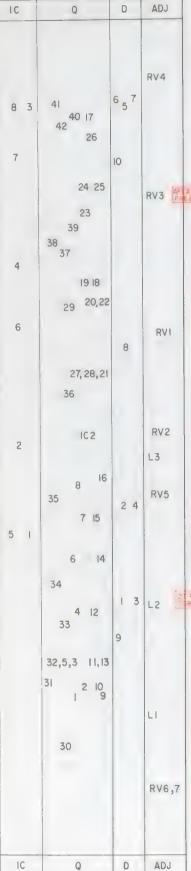
0.76 Vp-p (H) ② 1.8 Vp-p (H)

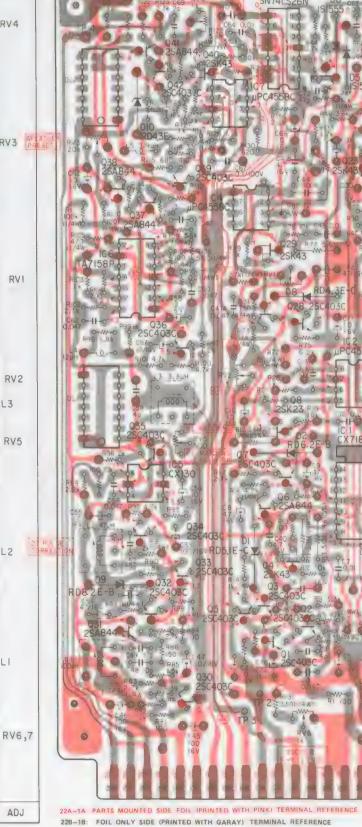
Note: • Reference numbers on the BB board are of the 2000 series. (i.e., R1:R2001, C1:C2001, etc.)

6-7

See page 6-1 for other notes.



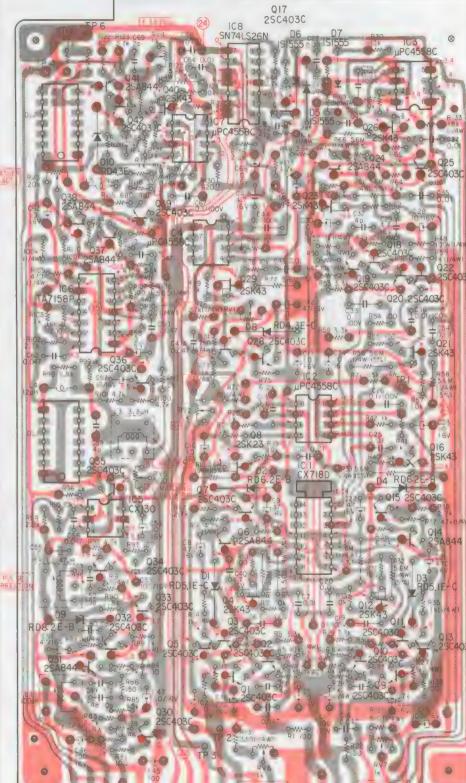




ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.

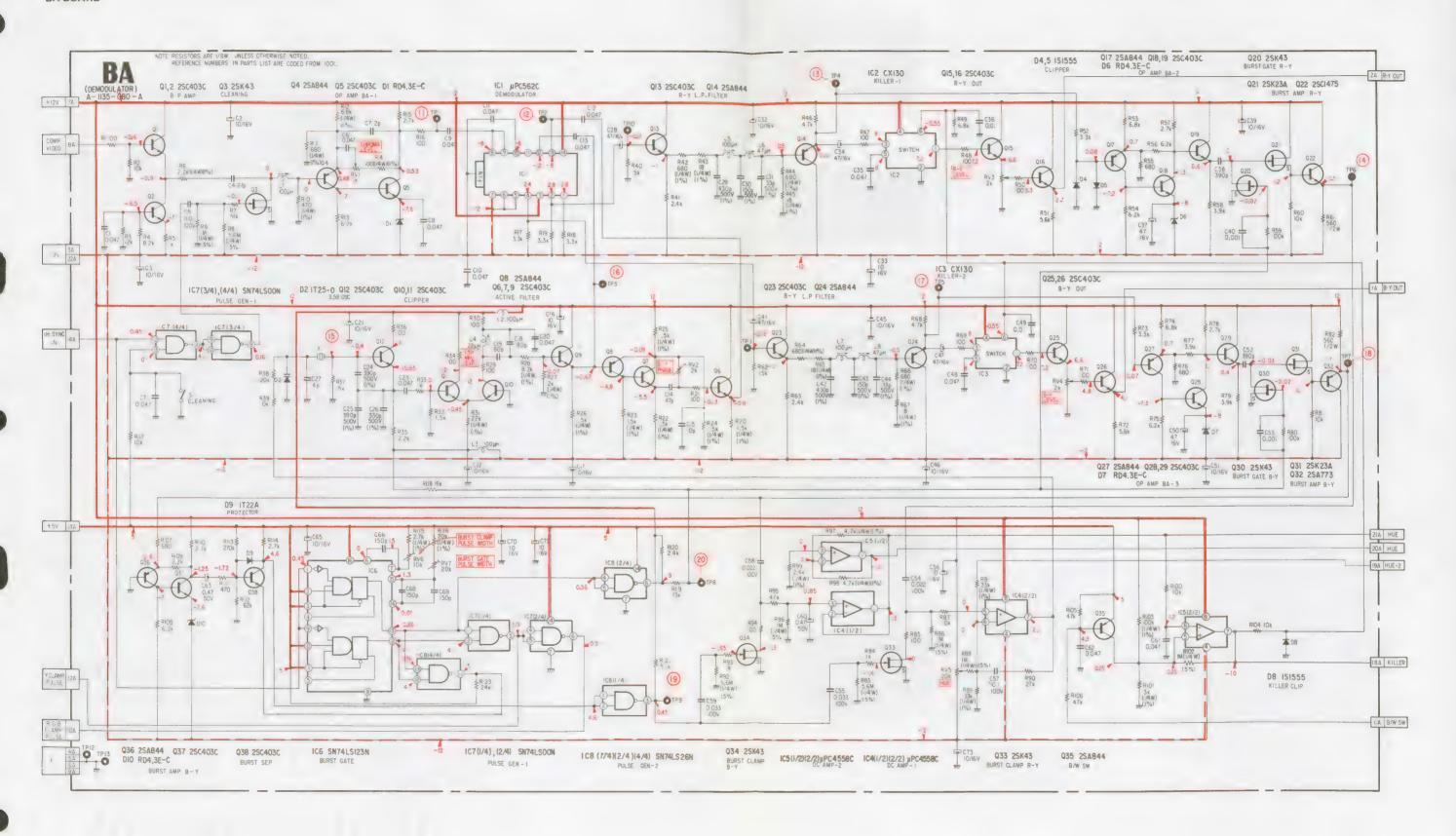
REFERENCE NUMBERS IN THE PARTS LIST ARE CODED FROM 2001.

ALL 1/4W CARBON RESISTOR'S TOLENANCE ARE :1% UNLESS OTHERWISE NOTED.

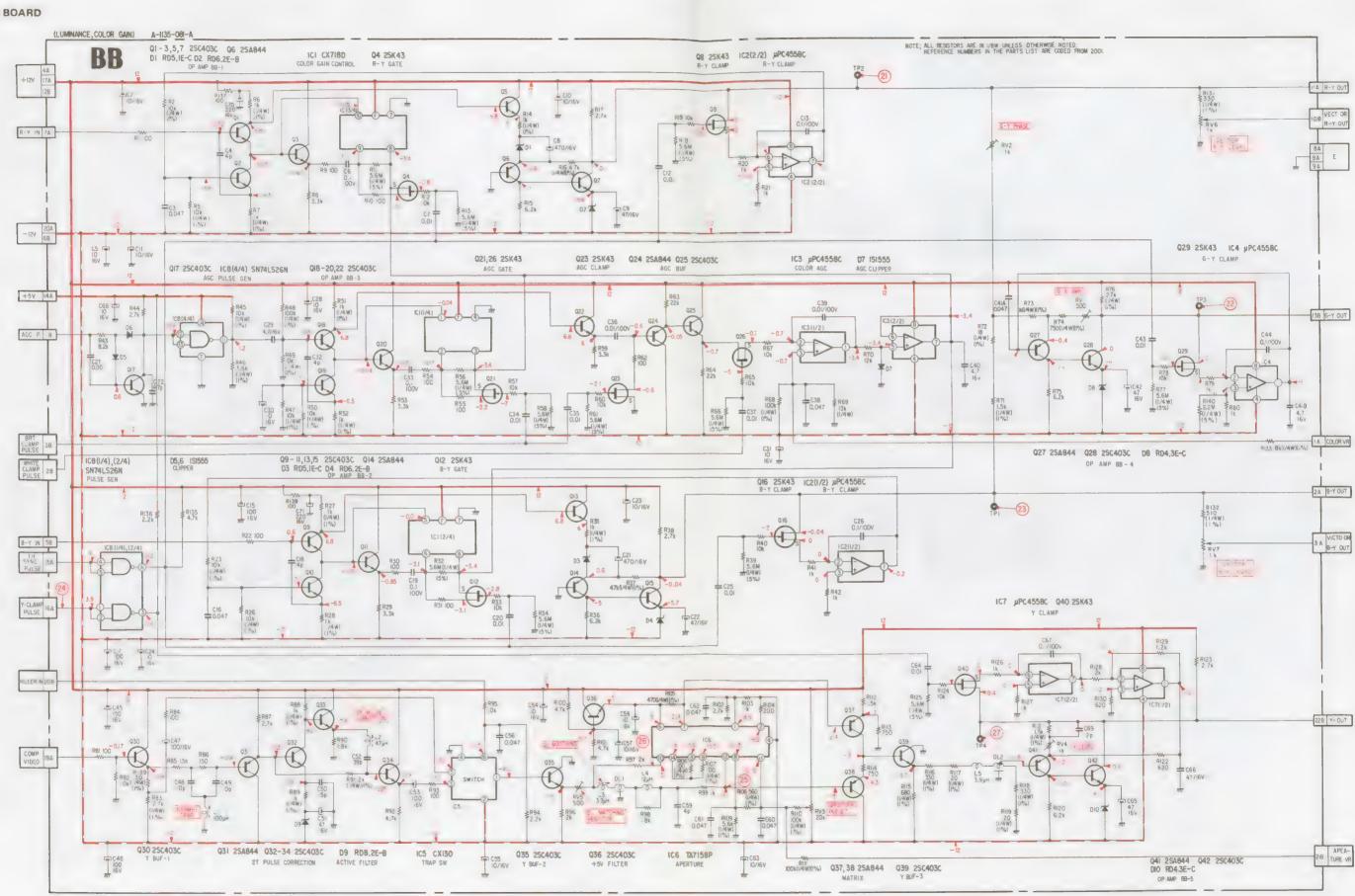


A-1135-081-A

BA BOARD



BB BOARD



BC BOARD

μPC4558C



SN74LS00N SN74LS26N



SN74LS123N TC4053BP



2SA844 2SA1027R



2SC403C



2SC1364



2SK23A

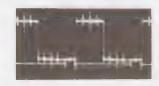






28 0.7 Vp-p (H) 31 0.76 Vp-p (H)







29 0.86 Vp-p (H) 32 0.92 Vp-p (H)













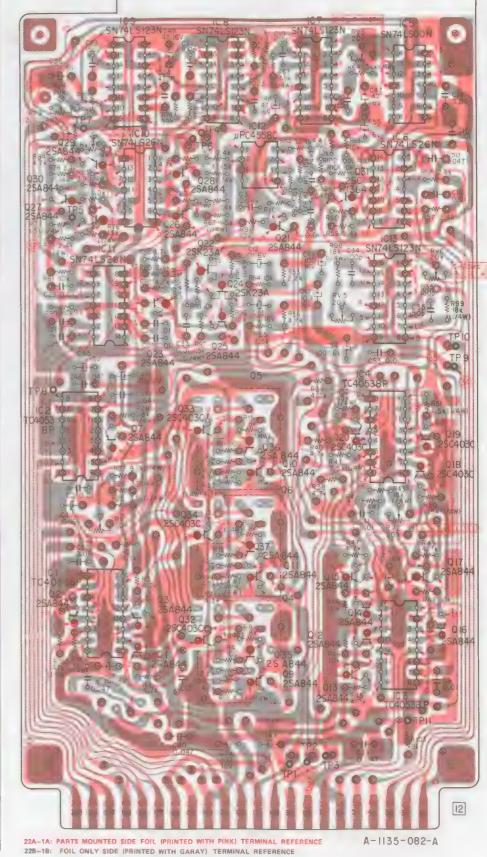


34 5.2 Vp-p (H)

38 7.8 Vp-p (H)

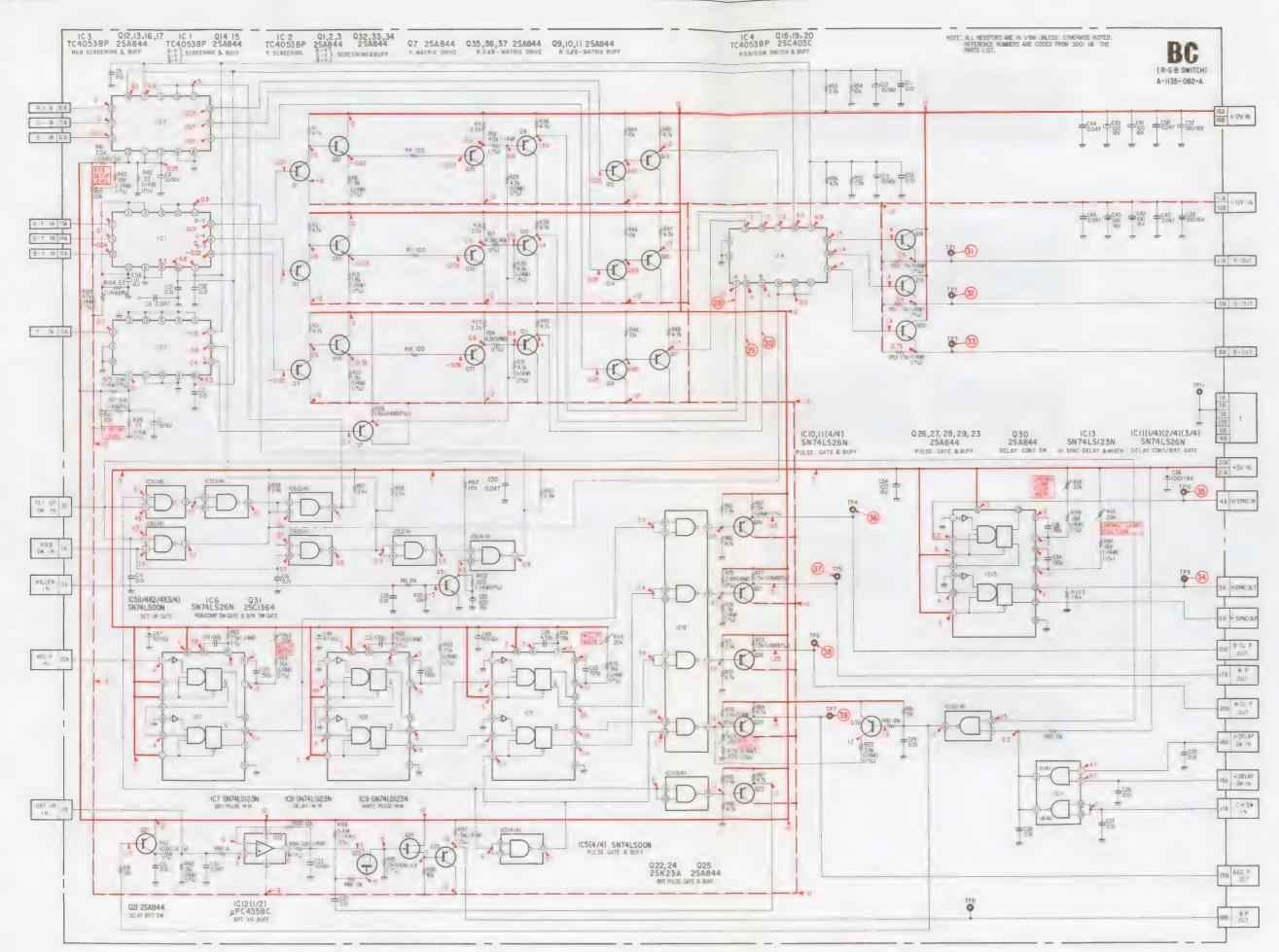
ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.
ALL 1/4W CARBON RESISTOR'S TOLENANCE ARE ±1%.
REFERENCE NUMBERS IN THE PARTS LIST ARE CODED FROM 3001.

| IC | Q | D | ADJ |
|------------|-------------------------------------------------------------------|---|------------|
| 9875 | | | RV3 |
| 12 10 6 | 29 28 30 31 27 26 21 | | RV4 |
| 11 13 | 22 24 23 25 | | RV6 |
| 2 4 | 7 33 7 20,19 36 10,18 6 | | |
| 3 | 34 37 11, 15, 17 4 2,3 14 32 12 16 1 35 9 13 | | RV2 RV1 |
| IC | Q | D | ADJ |



Note: • Reference numbers on the BC board are of the 3000 series. (i.e., R1:R3001, C1:C3001, etc.)

• See page 6-1 for other notes.



BD BOARD

μPC4558C



CX718D



2SA844 2SA1027R



2SC403C



2SK43



IS1555



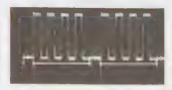
EQA01-05 EQB01-05



40 0.76Vp-p (H)

45 0.39 Vp-p (H)





410.88 Vp-p (H)

46 0.72Vp-p (H)





42 0.48 Vp-p (H)

47 0.84 Vp-p (H)



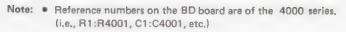


43 0.92Vp-p (H)

48 0.31 Vp-p (H)



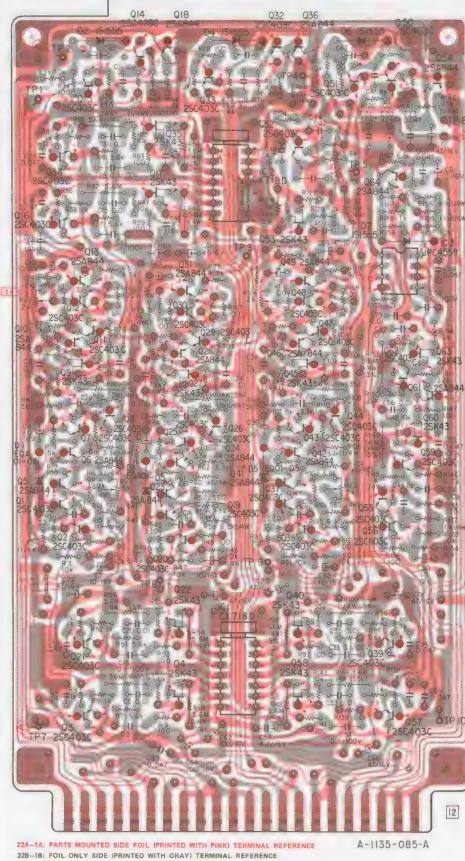
44 0.94 Vp-p (H)

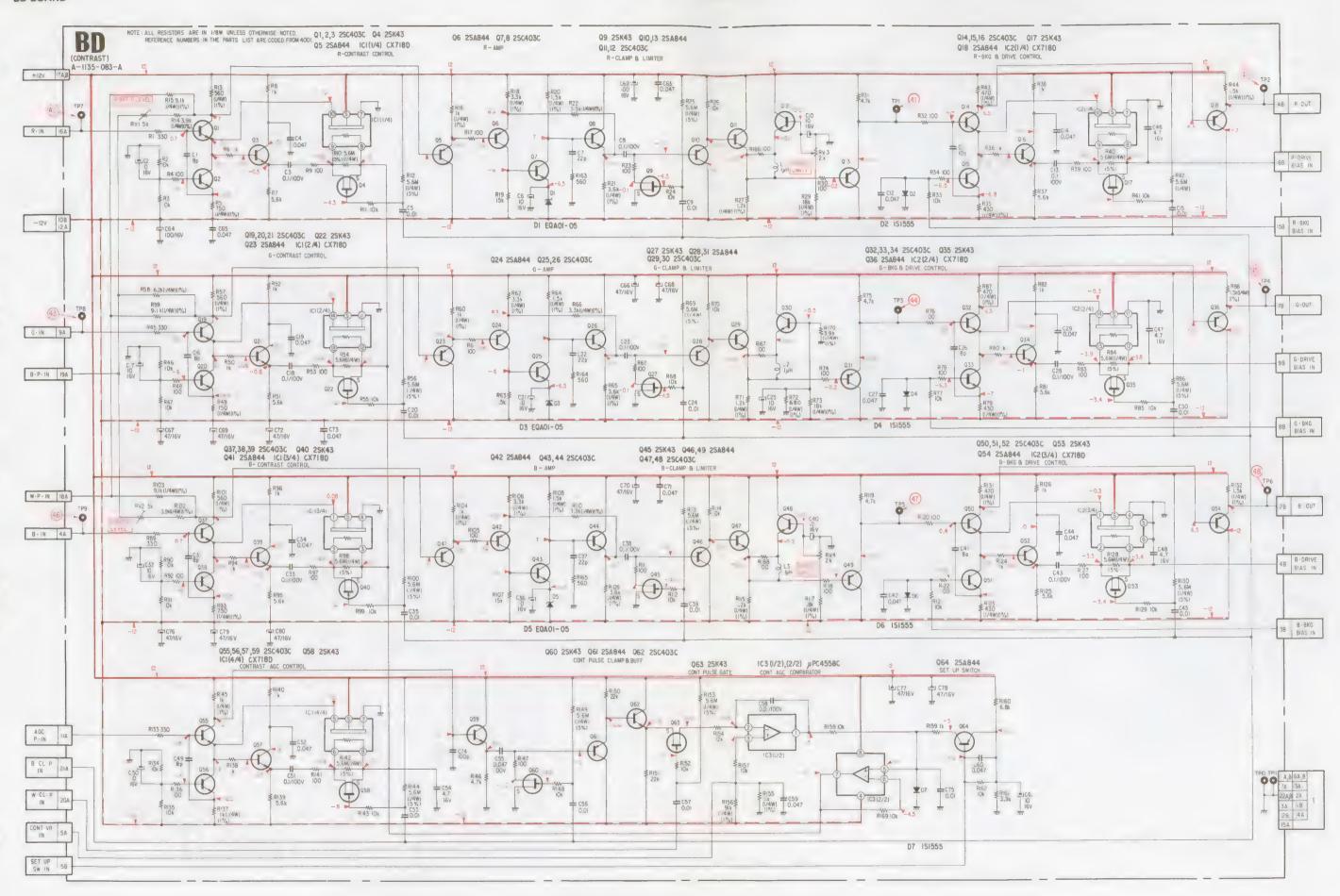


See page 6-1 for other notes.

ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.
ALL 1/4W CARBON RESITORS' TOLERANCES ARE ±1%.
REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 4001.

| Q,IC | D | ADJ | | |
|-------------------------------------------------------------------------------------------------------------------------------|-------|------------|---|--|
| 14,18 32,36 15 33 51,50 15 35 54 35 52 34 1C2 64 | 2,4,6 | | | |
| 16 53 | | | | |
| IC3 I3 31 49 I2 30 48 II 29 47 I0 28 46 63 9 27 45 61 7 8 44 7 25 26 43 60 6 24 42 59 5 41 1 23 37 55 19 56 2 38 | 1,3,5 | RV3 RV4 | P | |
| 22 40 21 39 4 58 3 57 | | | | |
| Q,IC | D | ADJ | | |





Q, IC D ADJ

BE BOARD

μPC4558C

1 2 3 4 (Top view)

2SK43

EQA01-05 EQA01-06 EQB01-05

EQB01-06 S1B01-02

IS1555 10E2

2SA844 2SA1027R



2SA899



2SC403C 2SC1636



2SC1904 2SD668

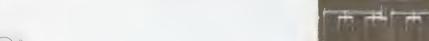


2SC2009



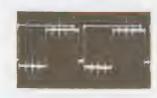
2SC2278





49 30Vp-p (H)

50 28 Vp-p (H)





⑤1 21.5 Vp-p (H)

ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED. ALL 1/4W CARBON RESITORS' TOLERANCES ARE ±1%.
REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 5001.

| 21 20 34 33 | 4 IO I6 3 9 I5 | 08 25A899 25A899 280 04 | 7 904 25Å899 151555 03 151555 | 25C1904 8 151 | |
|------------------|----------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 6 12 18 | 518CI-C2 5 6 | 0 2 | \$ 459 | Ø |
| | 2 8 14 | ★国了:200 | 06 | R57 019 | ▼ 1 20 |
| 19 32 | | D2 3.3k .EDAOI-066 TP1 | 2SC2278 EQACI- | 100 33% 25C2276 | 3 EQAQ1-06 3w 2: |
| 16 29 | | 2SA844 5 - 9 87 15% | SHEW 116 8 SHEW 25A84 | 47 - 2850 . 51 . WIC 20 0.0 | 2SA844 - R92 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 |
| 17 30 | | 25A844 3 8 9 4 6 | W-0 C6 U0 } W-0 C6 U0 } W-0 ⊗ I-⊗ \$€5 | 25A844 (E.) | 5 25A844 |
| 5 18 31 | CVI CV3 | 05 2\$C2 009 P | W-5 47/72 6 DI 250 EQACI-OS | 2009 6-1 6 D7 | 0310 7 0310 25C(2009) 46-07 C05 3 = 0 |
| 15 28 14 27 | 1 7 13 CV2 | 25C403C . I | | C403C A Q14 | Q28 28C403C 10 28C403C 10 28C403C 10 28C403C 10 28C403C 10 28C403C 10 |
| 22 35 | | 12 - 3 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 975 (0x 6 2x 0-10) (0x 0-1 | 2 0-W- | 81.25 MW |
| 23 36 | 9 | 010 250 1636 9 0. ≥25K4 | 8824 0 6Ma (44) 3822 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 877 \$15 80 W 20 0 W | 035 0 035 0 035 0 035 0 025k430 |
| IC2 IC3 | | 2°3 € 20 477 6 v € 20 183 € W - 0 € 20 | 56 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 9(2) \$ \frac{1}{2} \frac{1} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \f |
| 24 37 3 26 39 | 5 11 17 | Q11 | P. 4008 024 024 05 45555 25445 08 645 64 646 | 026 - W-5 0-11 15 026 - W-5 0-11 | PC4558 |
| | RV2 RV6 RV1 RV5 RV4 RV3 | | | | |
| | | | | S NOO! 64 S | |

VOLTAGES MAKED () ARE MEASURED WHEN BLUE ONLY SWITCH (\$3501) OF JC BOARD IS ON.

D ADJ

Q , 1C

Note: • Reference numbers on the BE board are of the 5000 series. (i.e., R1:R5001, C1:C5001, etc.)

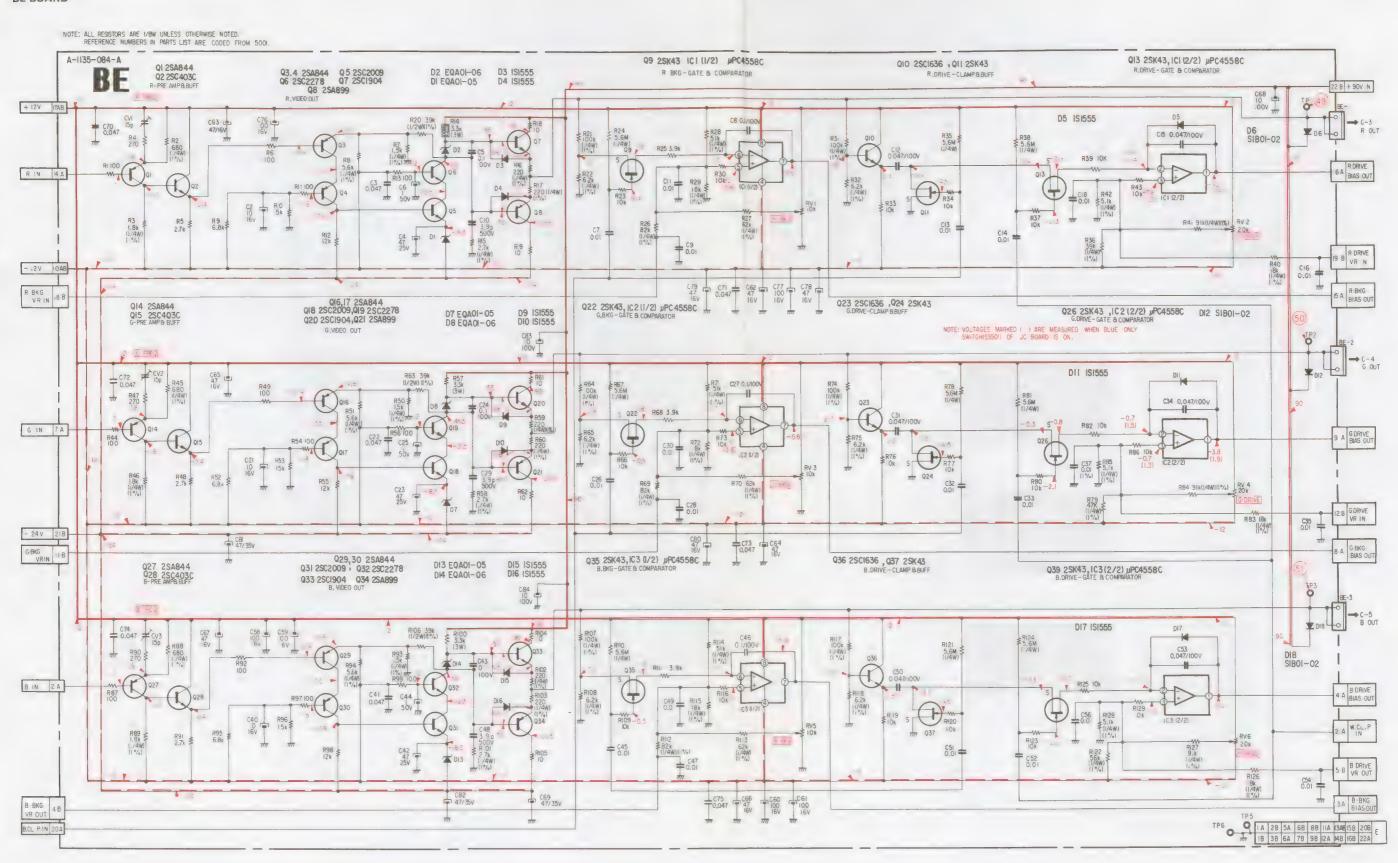
See page 6-1 for othr notes,

A-1135-084-A

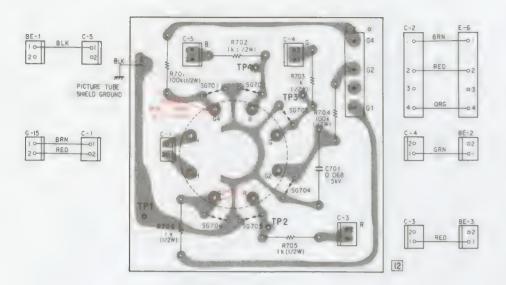
22A-1A: PARTS MOUNTED SIDE FOIL (PRINTED WITH PINK) TERMINAL REFERENCE

228-18: FOIL ONLY SIDE (PRINTED WITH GRAY) TERMINAL REFERENCE

BE BOARD



C AND P BOARDS





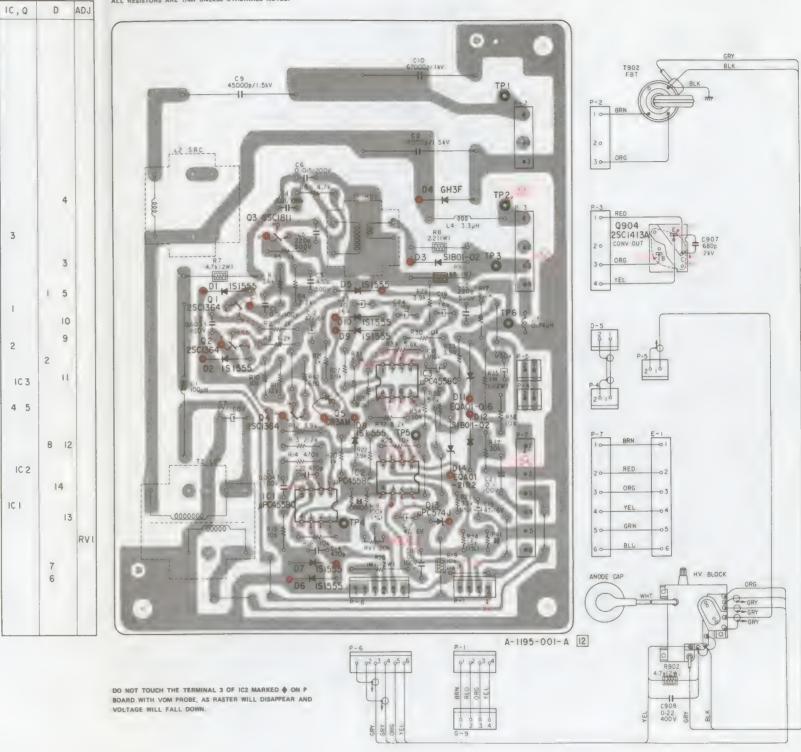
52 6.4 Vp-p (H)





64 130 Vp-p (H)

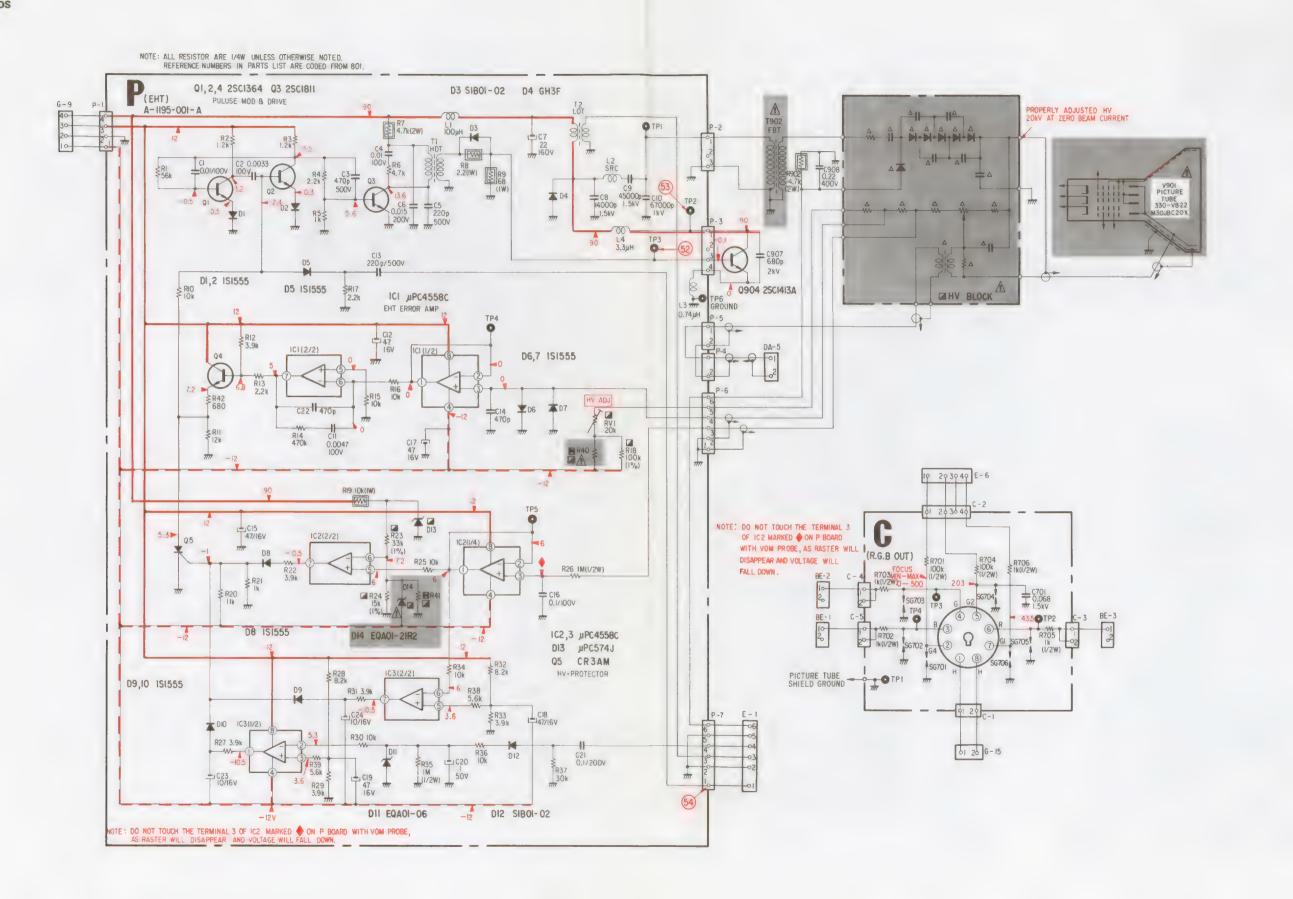
REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 801.
ALL RESISTORS ARE 1/4W UNLESS OTHERWISE NOTED.



Note: • Reference numbers on the P board are of the 800 series. (i.e., R1:R801, C1:C801, etc.)

- Reference numbers on the C board are of the 700 series. (i.e., R1:R701, C1:C701, etc.)
- See page 6-1 for other notes.

C AND P BOARDS



2SC1811

B B B

μPC574J

IS1555 10E2 cathode

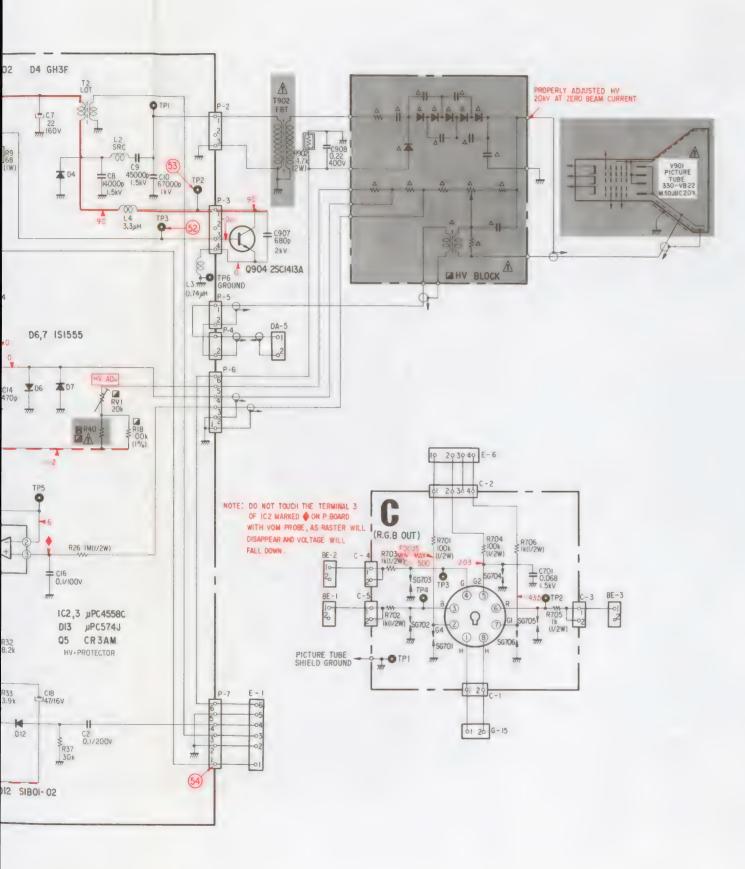
EQB01-00 SIB01-02

EQA01-2

GH3F

SG629

CR3AM



μPC4558C



2SC1364



2SC1811



μPC574J



IS1555 10E2



EQA01-06 EQA01-21R2 EQB01-06 SIB01-02



GH3F



SG629



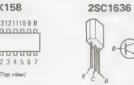
CR3AM



Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

DA, DB, JB AND JC BOARDS





2SD669A

1\$1555

1T22 1T22A













2SA1027R

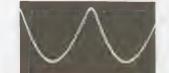


2SB649A



2SC1364





643.9 Vp-p (H)



69 4.2 Vp-p (H)



658 Vp-p (H)



70 5.4 Vp-p (V)



66 1.4 Vp-p (H)



11.6 Vp-p (V)



67 12.5 Vp-p (V)



724.2 Vp-p (V)



68 7.6 Vp-p (H)

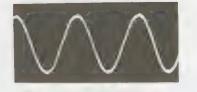
6-28



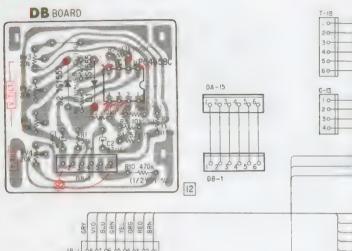
30.3 Vp-p (V)

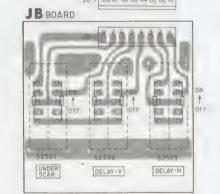


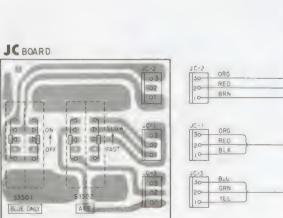
10.4 Vp-p (V) **DELAY-V** switch on





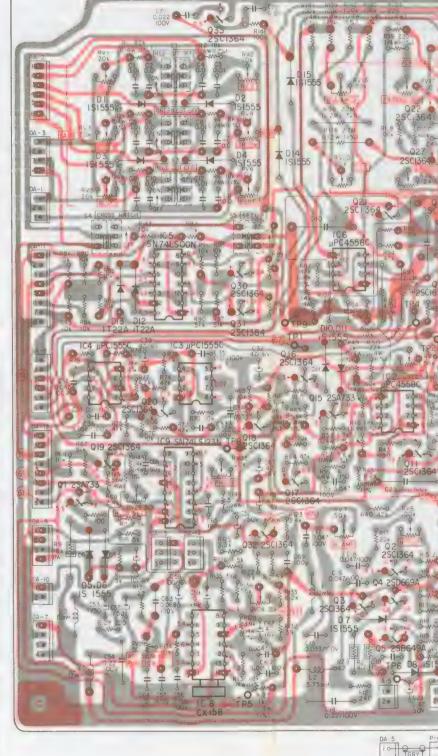


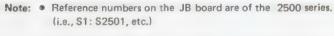




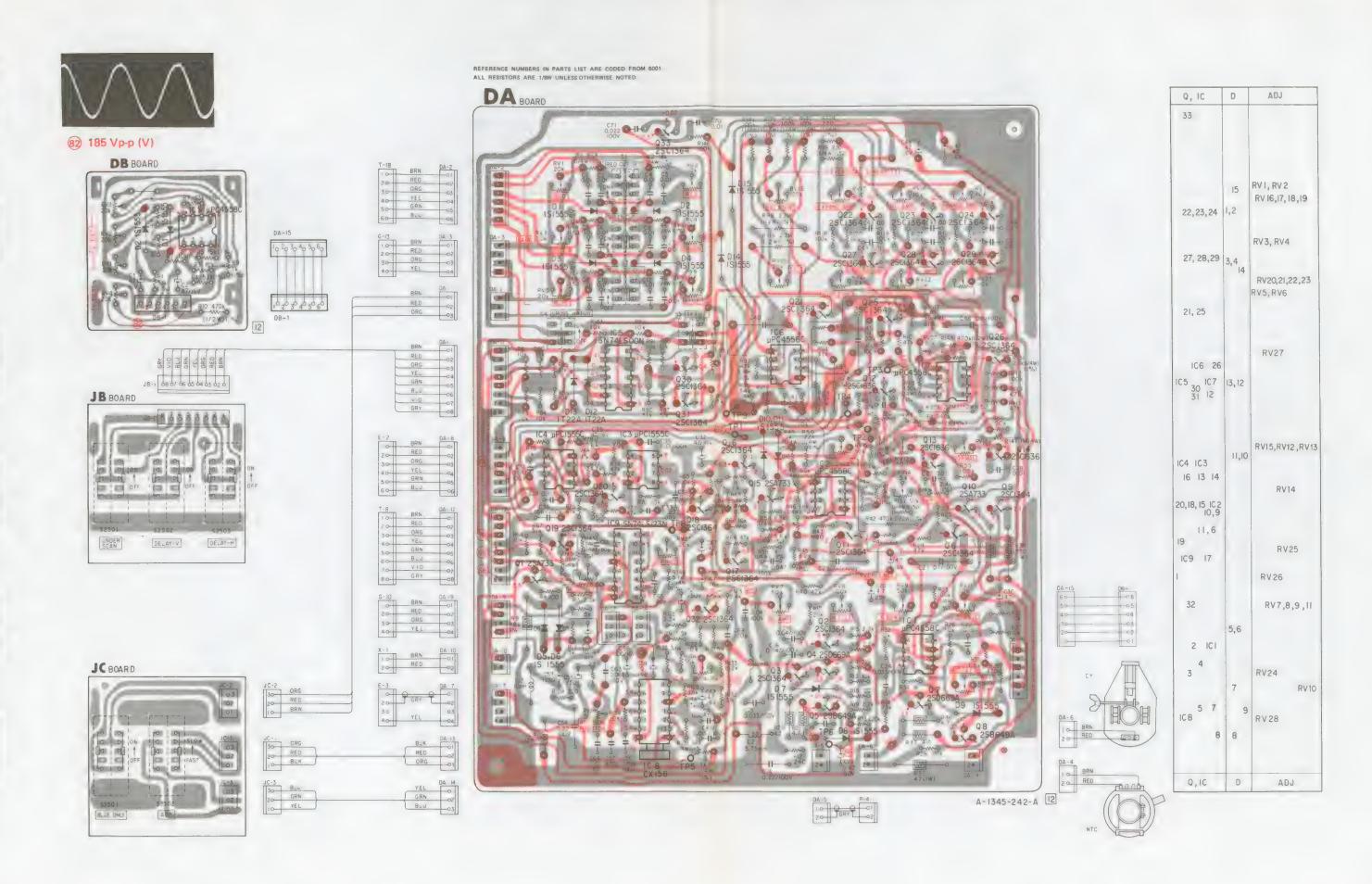
REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 6001.





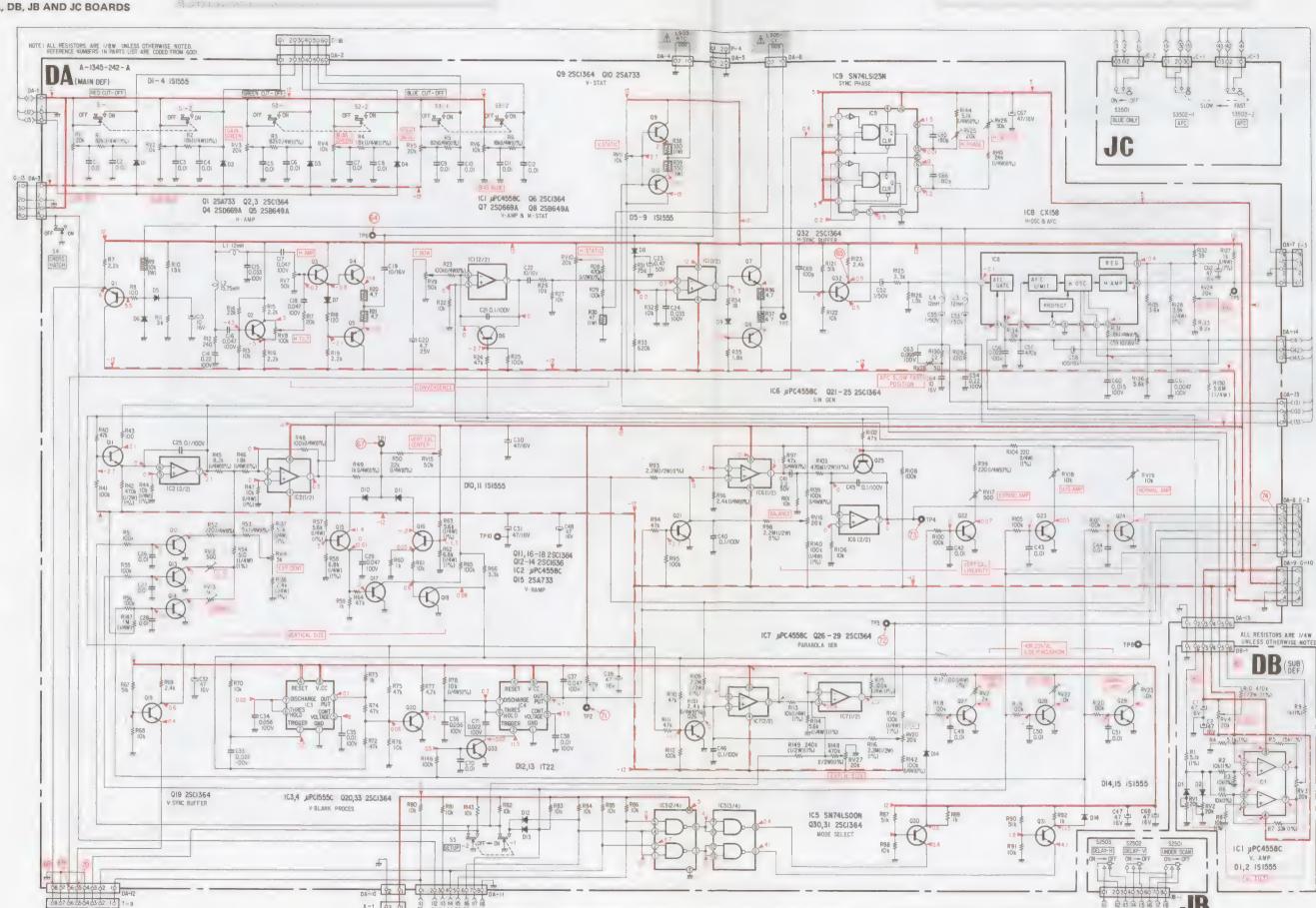


- Reference numbers on the JC board are of the 3500 series. (i.e., S1:S3501, etc.)
- Reference numbers on the D board are of the 6000 series. (i.e., R1:R6001, C1:C6001, etc.)
- See page 6-1 for other notes.



Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DA, DB, JB AND JC BOARDS



Note: The components identified by shading and mark

specified.

are critical for safety. Replace only with part number

E E





-/-/-

55 29 Vp-p (V)

60 0.3 Vp-p (H)
UNDER SCAN switch on





56 9.8 Vp-p (H)

61 100 Vp-p (V)





57 830 Vp-p (H)

62 0.64 Vp-p (V)





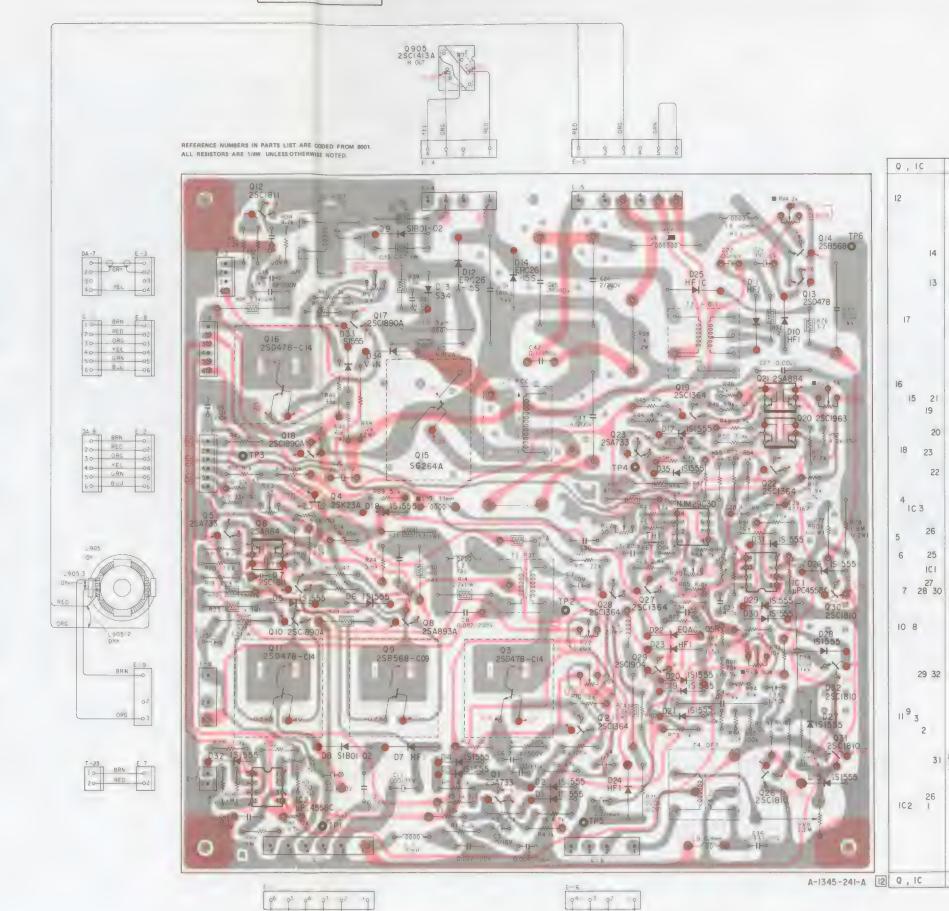
58 10.8 Vp-p (V)

63 10 Vp-p (H)



59 12 Vp-p (V)

- Note: Reference numbers on the E board are of the 8000 series. (i.e., R1:R8001, C1:C8001, etc.)
 - See page 6-1 for other notes.



D ADJ

RV4

RV6

RV2

RV9

RVI

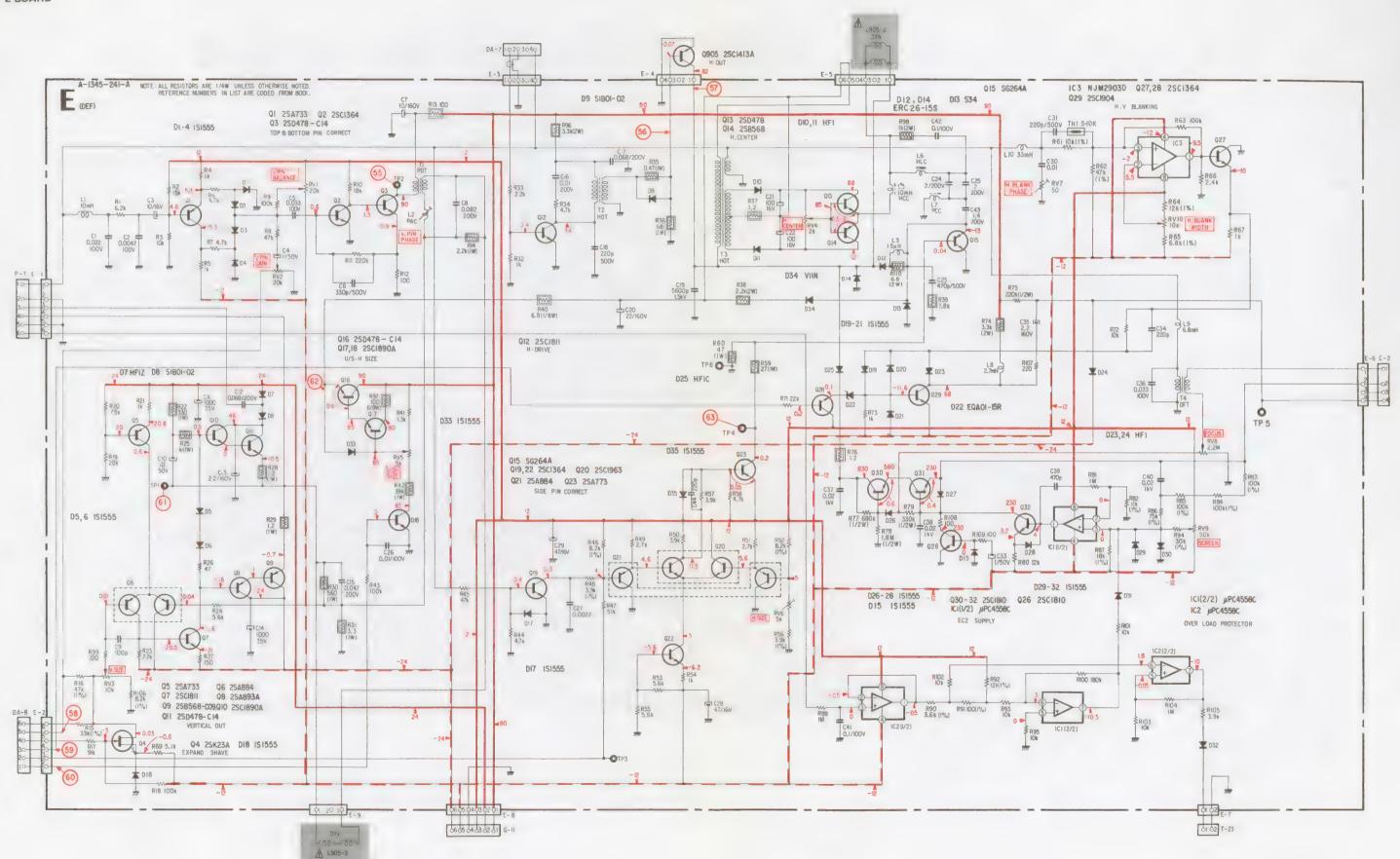
22

20

D ADJ

35

E BOARD



μPC455

NJM29

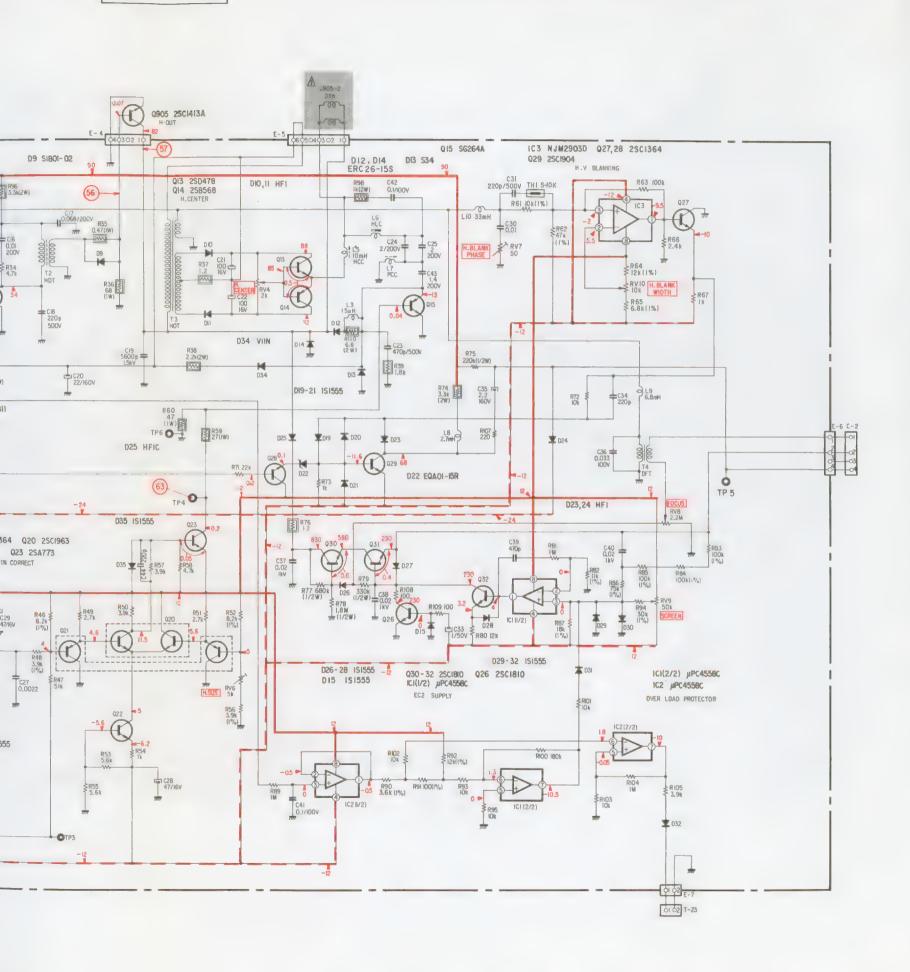
2SA77 2SA89

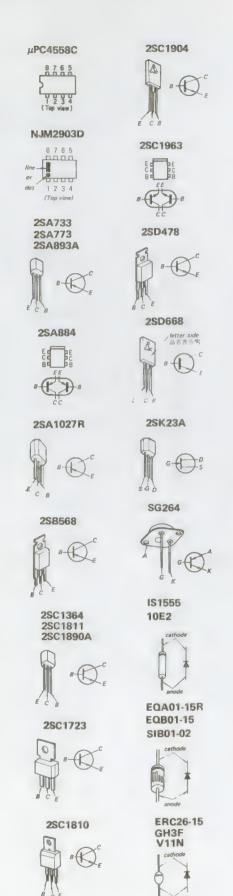
2SA8

2SA10

2SB5

2SC1 2SC1 2SC1

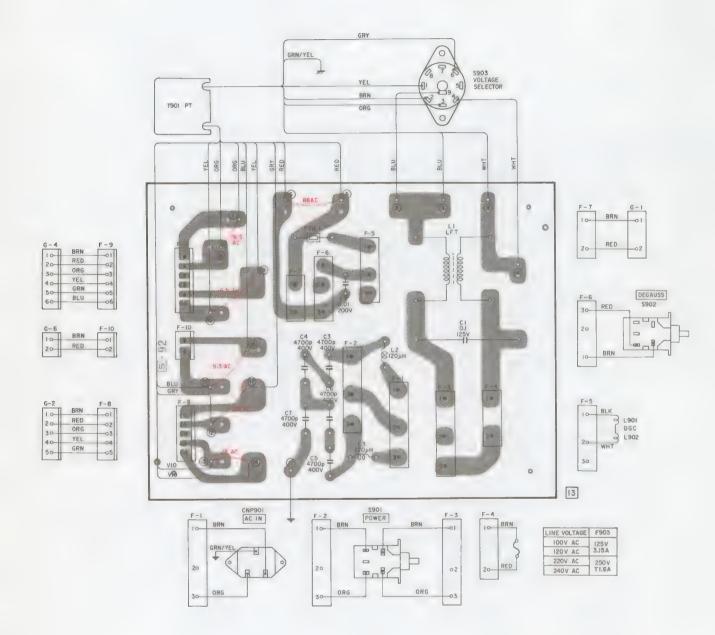


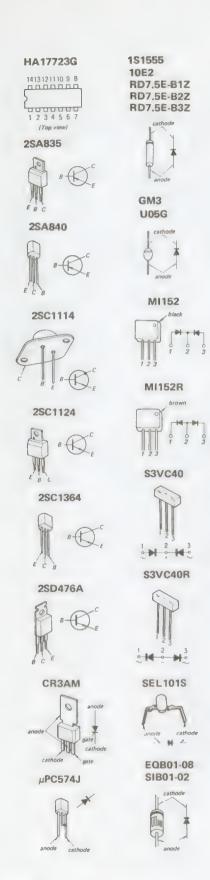


HF1 HF1A HF1C cathode

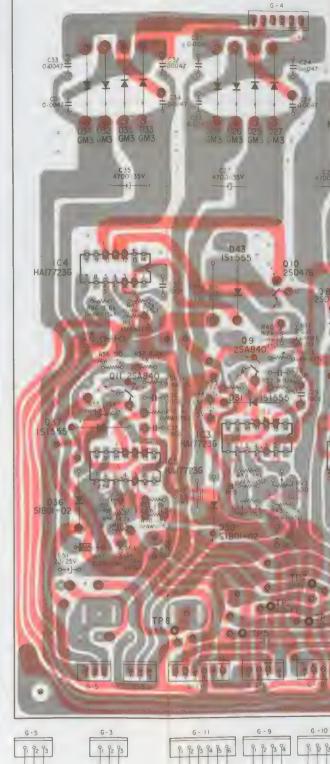
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

F AND G BOARDS





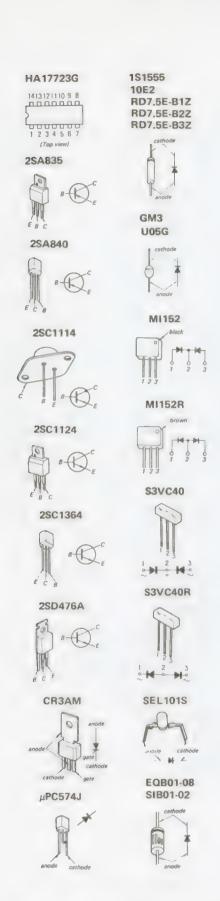
| Q, IC | D | ADJ | |
|-------------------------------------------------|------------------------------------------------------|-----|--|
| | 34,32,33,35 28,26,29,27 20,21,15,14 1,3,4,2 | | |
| IC4 I IO 7 8 6 | 10 5 11 12 43 18 13 | | |
| 12 9 13 11 3 1C3 1C1 14 1C2 4 | 25 19,40 31 42 37 8 7 | | |
| 5 | 36 30 | RV3 | |
| 2 | 38 39 | RVI | |
| Q, IC | D | ADJ | |



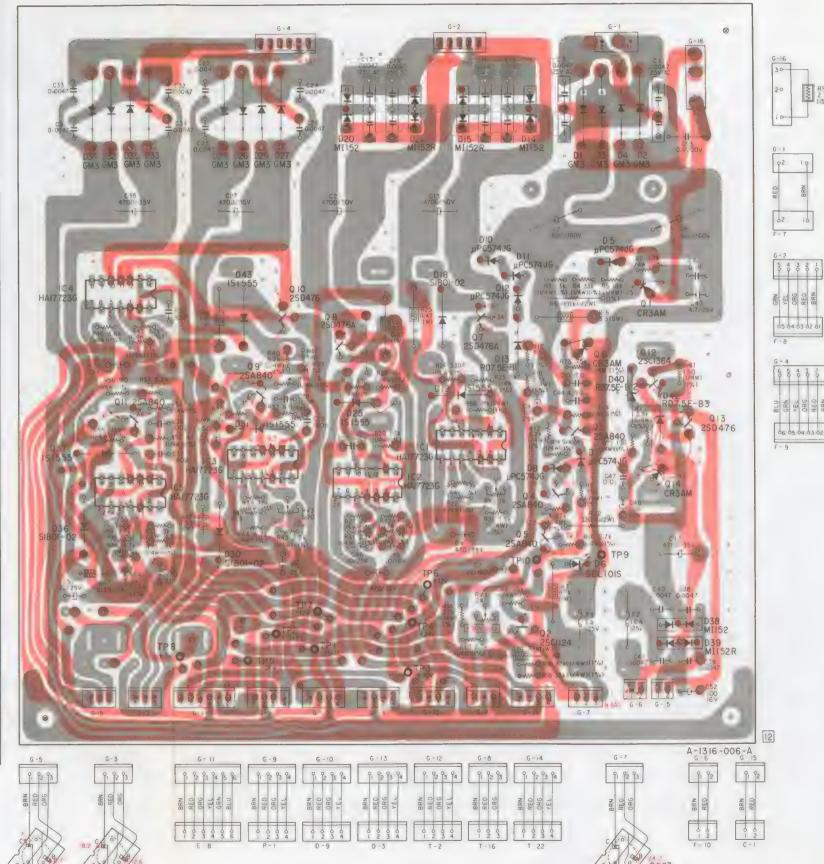
Note: • Reference numbers on the F board are of the 500 series.
(i.e., R1:R501, C1:C501, etc.)

• See page 6-1 for other notes.

See page 6-1 for other notes.



| Q , 1C | D | ADJ |
|-------------------------|------------------------------------------------------|------------|
| | 34,32,33,35 28,26,29,27 20,21,15,14 1,3,4,2 | |
| IC4 I IO 7 8 6 | 10 5 11 12 43 18 13 | |
| 9 13 11 3 1C3 C1 14 | 25 19,40 31 42 37 8 7 | |
| IC2 4 IC5 | 36 30 | RV2 RV3 |
| | 6 | |
| 2 | 38 39 | RVI |
| Q, IC | D | ADJ |



Note: • Reference numbers on the G board are of the 600 series. (i.e., R1:R601, C1:C601, etc.)

• See page 6-1 for other notes.

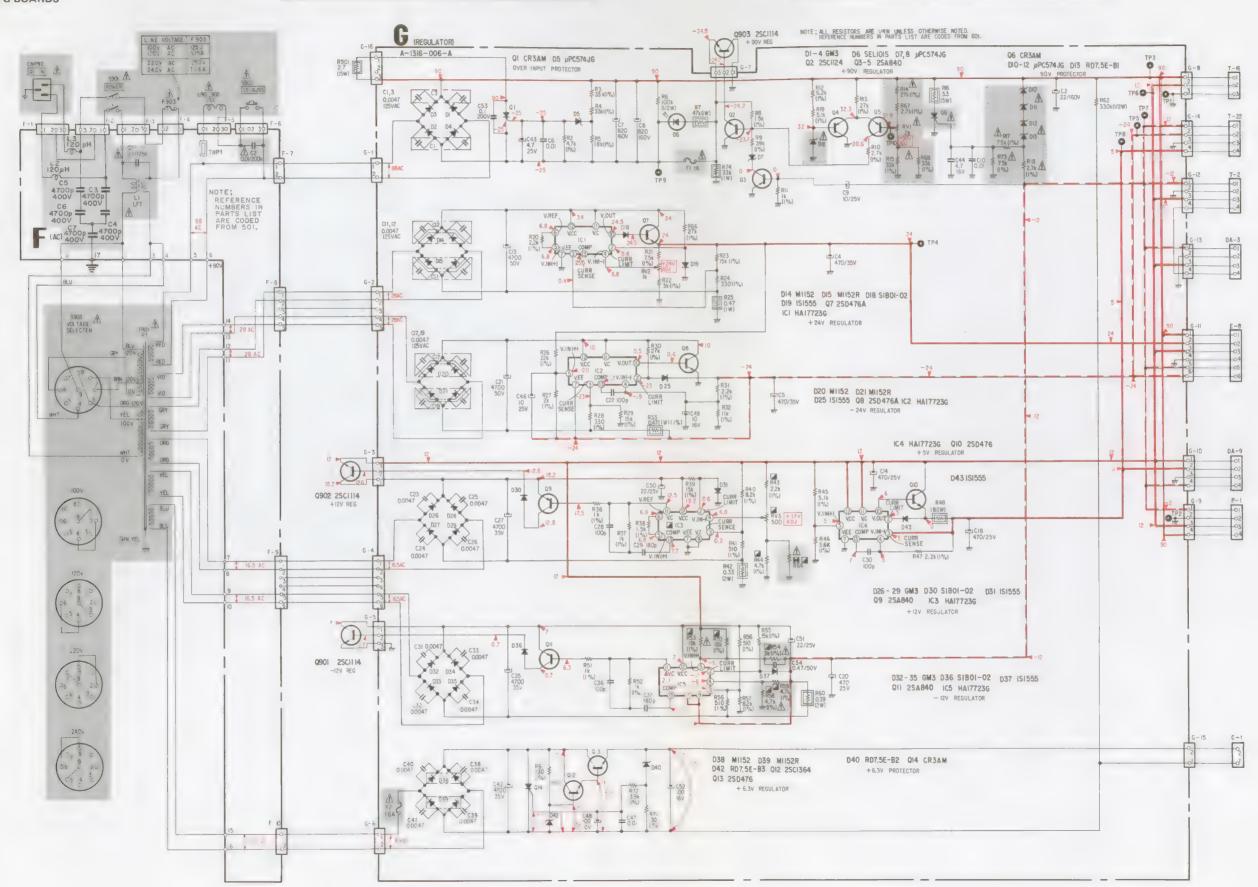
Note: The components identified by shading and mark A

specified.

are critical for safety. Replace only with part number

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

F AND G BOARDS



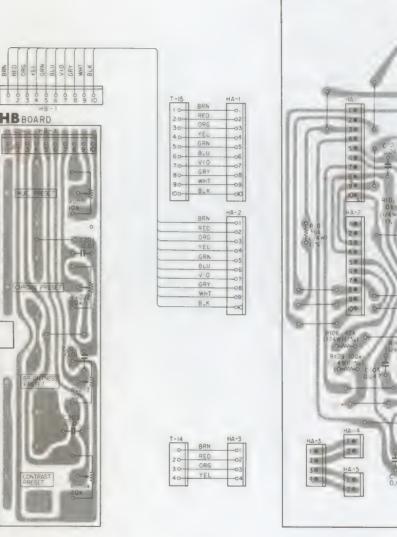
HA, HB, YA AND YB BOARDS

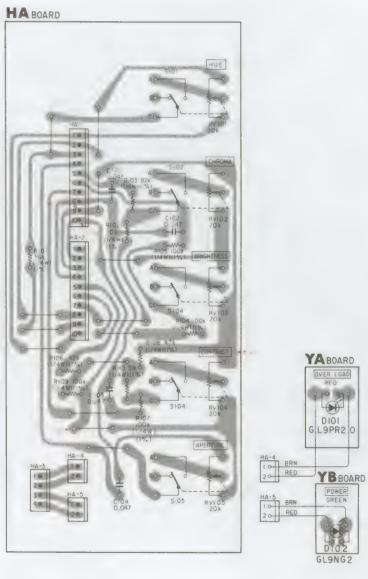
GL9PR20



GL9NG2

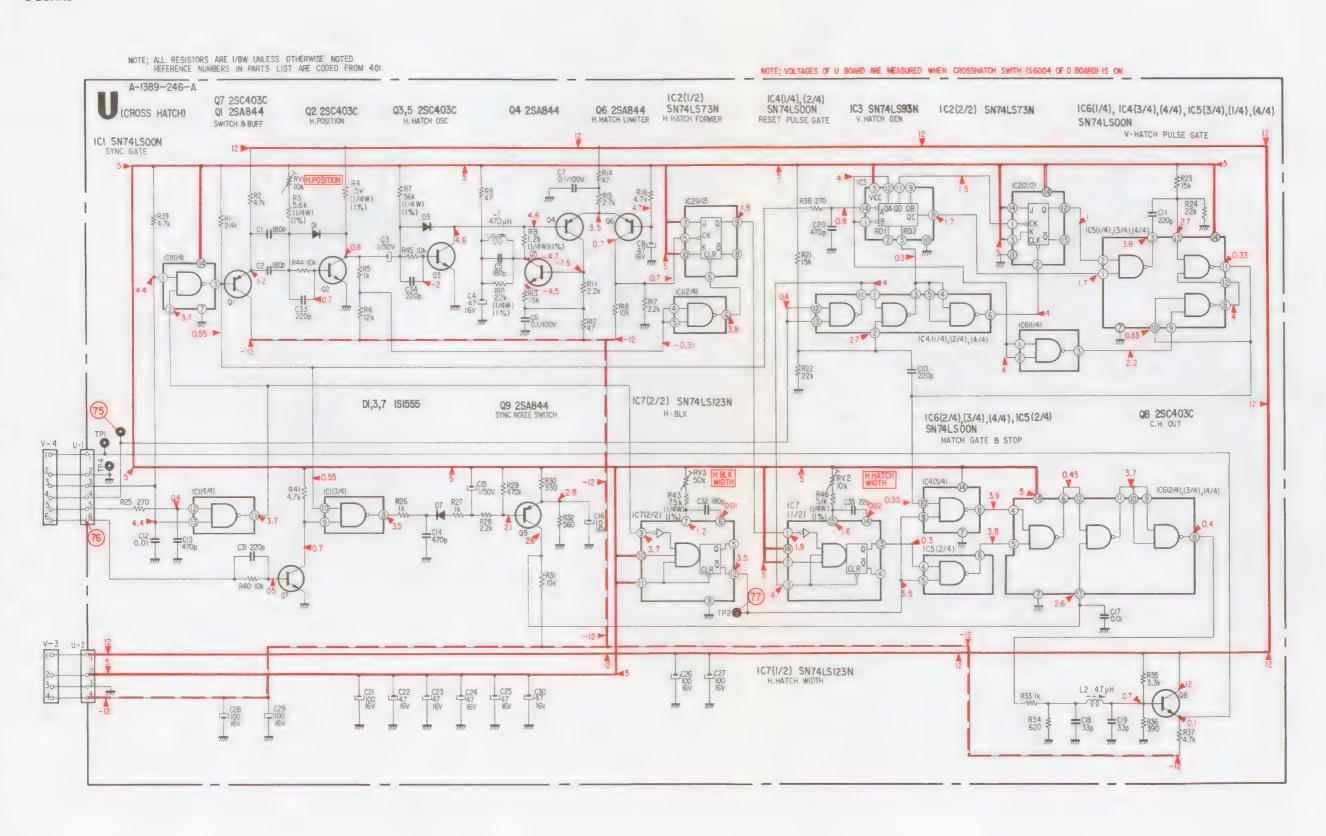






Note: • Reference numbers on the HA board are of the 100 series. (i.e., R1:R101, C1:C101, etc.)

- Reference numbers on the HB board are of the 200 series.
 (i.e., R1:R201, C1:C201, etc.)
- See page 6-1 for other notes.



\$N74L\$00N \$N74L\$73N \$N74L\$93N 1413121110 9 8

SN74LS123N

16151413121110 9

2SA844 2SA1027R

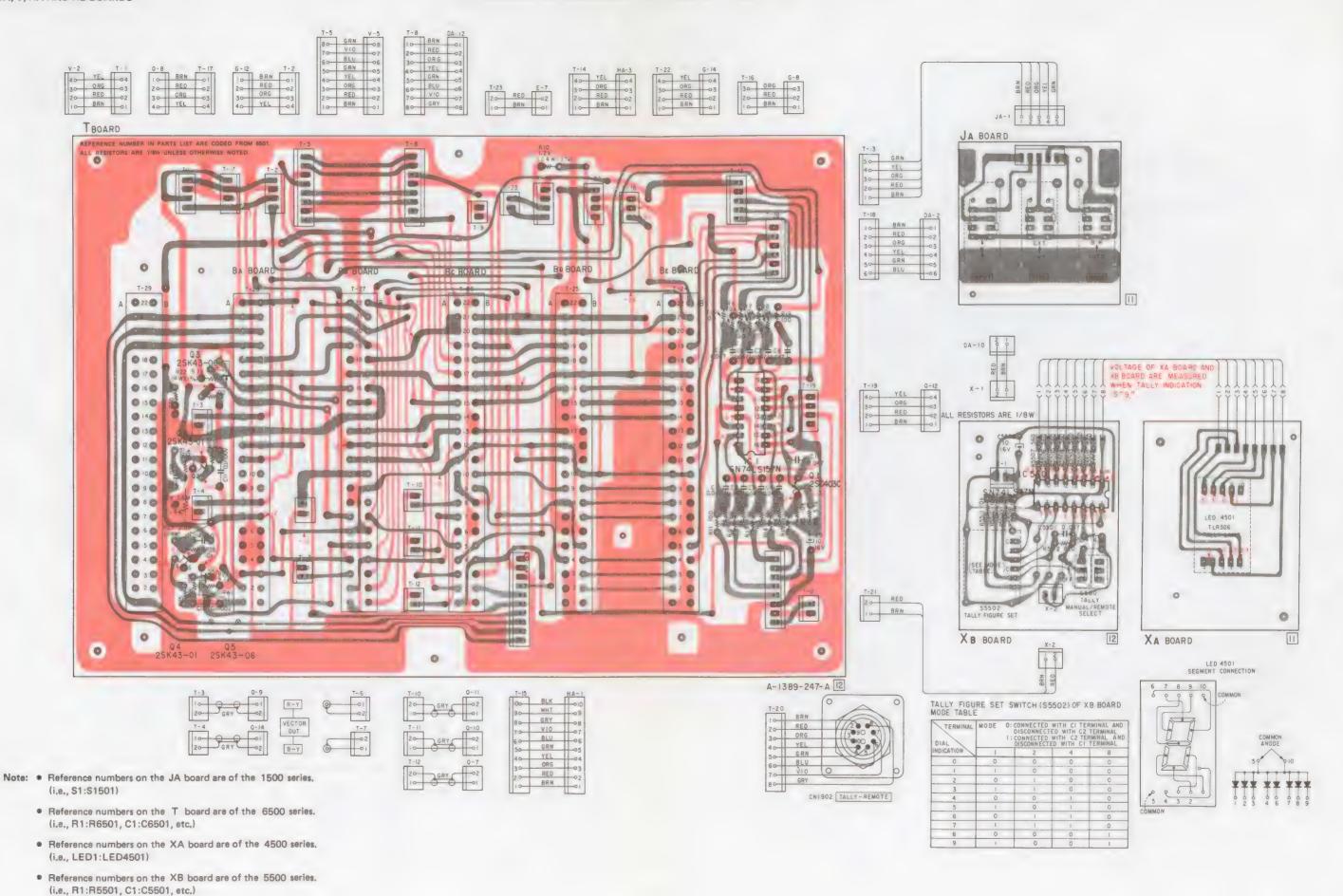


2SC403C

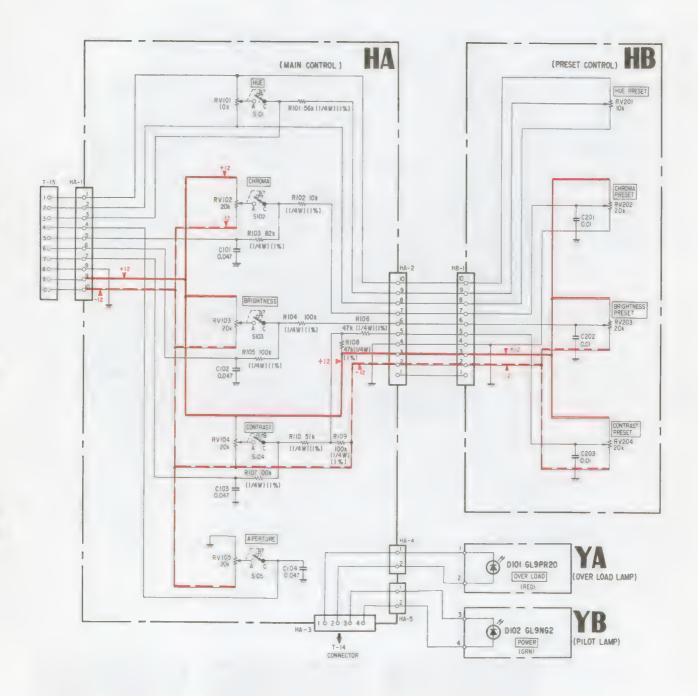


IS1555



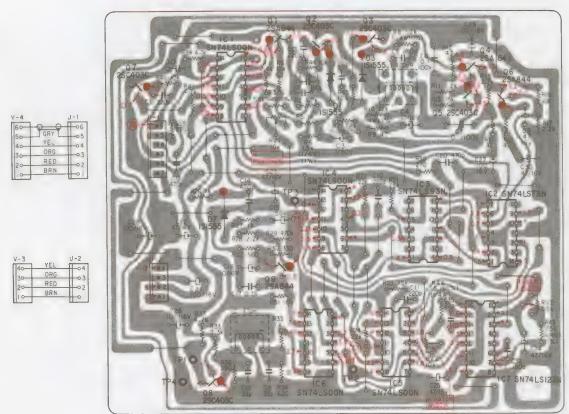


See page 6-1 for other notes.



U BOARD

ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.
REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 401.
VOLTAGES OF U BOARD ARE MEASURED WHEN CROSS HATCH SWITCH (\$6004 OF D BOARD) IS ON



A-1389-246-A

| 7 | ICI | 1 | 2 | 3 | | 5 4 6 | |
|-----|-----|-----|-----|---|-----|-------|-----|
| IC | | 9 | IC4 | | 103 | IC2 | |
| 9 | 8 | 3 | 106 | | 105 | 107 | |
| D | 7 | | I | 3 | | | |
| ADJ | | RVI | | | | | RV3 |
| 100 | | | | | R | V 2 | |



75 5.4 Vp-p (V)



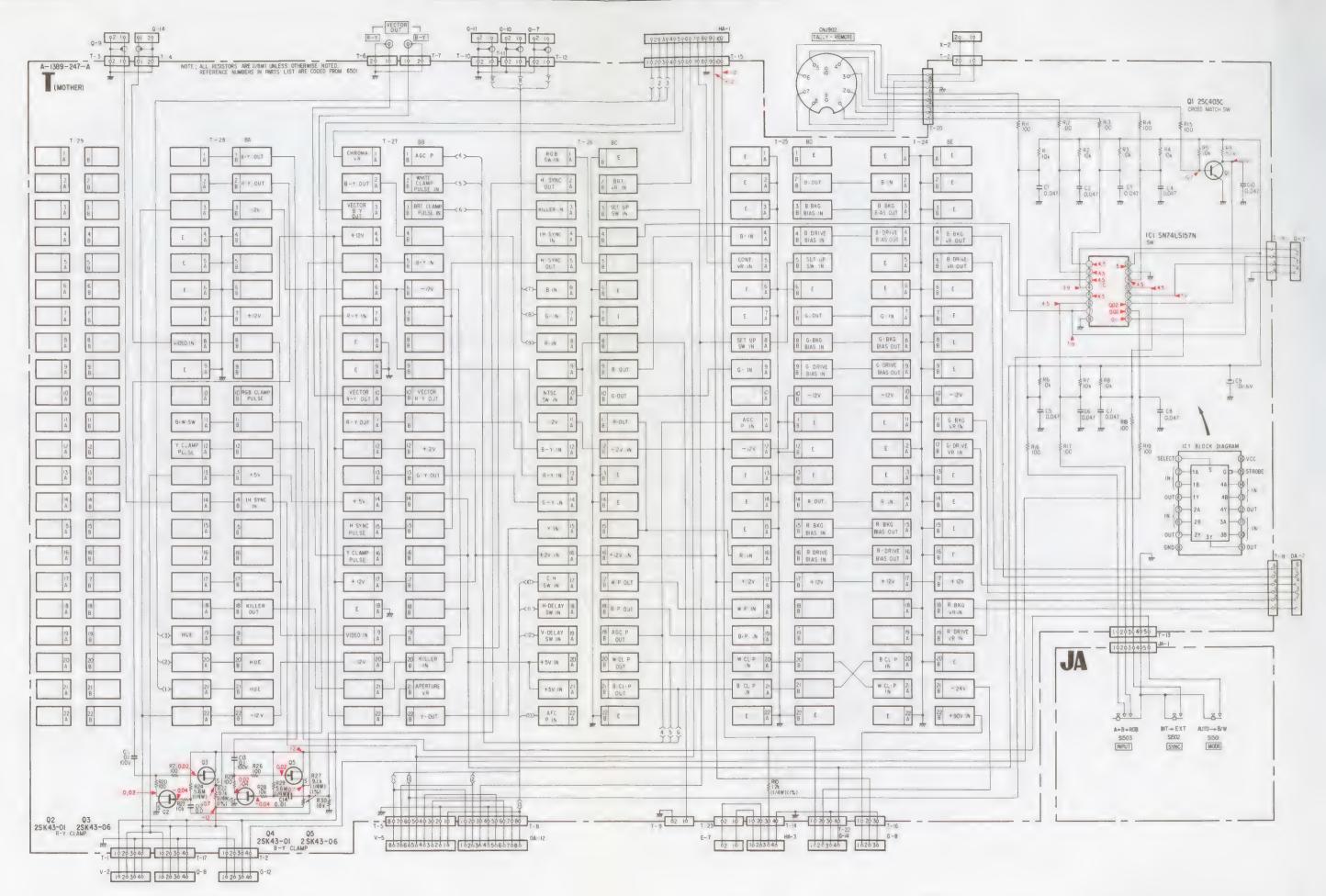
76 8.2 Vp-p (H)

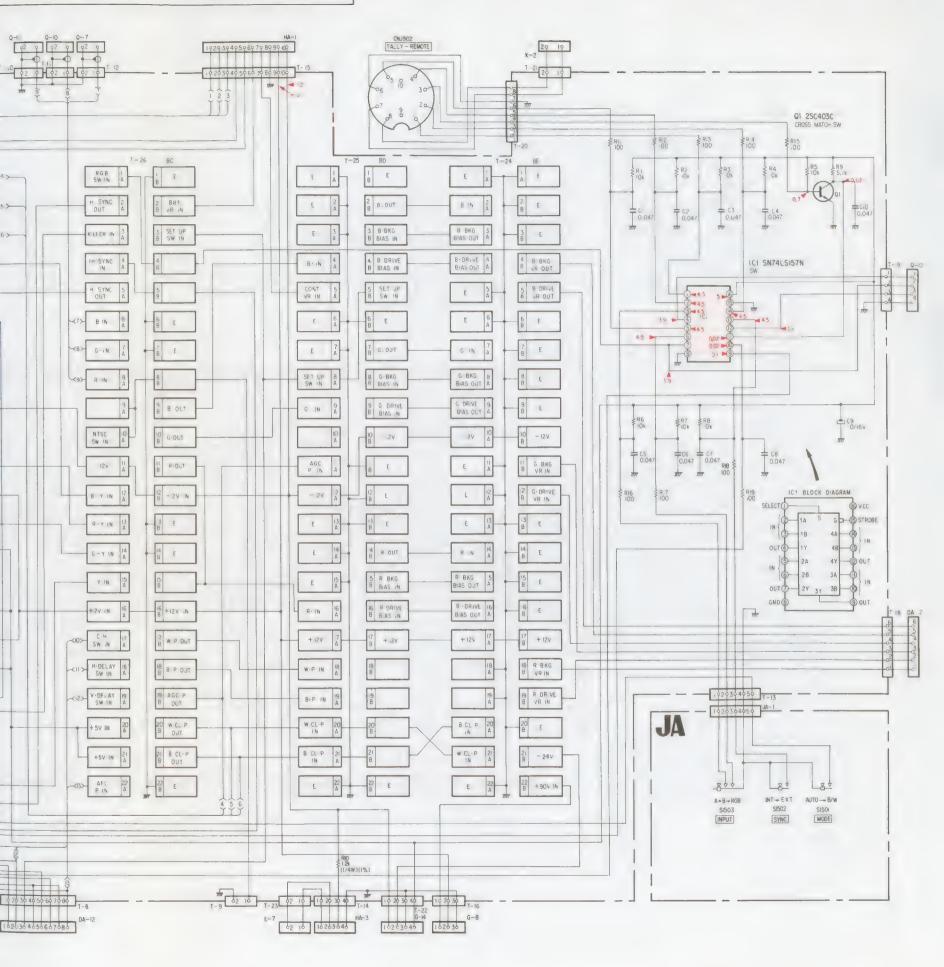


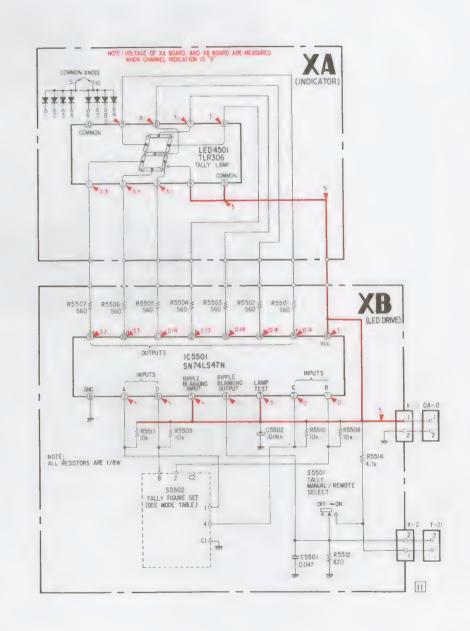
775 Vp-p (H) C.H. switch (S4 on D board) on

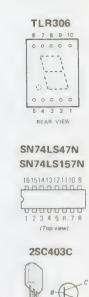
- U Board -

- Note: Reference numbers on the U board are of the 400 series. (i.e., R1:R401, C1:C401, etc.)
 - See page 6-1 for other notes.









WBOARD

Q AND W BOARDS





SN74LS123N



μPC4558C



2SA844 2SA1027R



2SC403C



2SK43



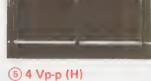




① 1 Vp-p (H)

① 0.92 V p-p (H)

(8) (9) 1 Vp-p (H)



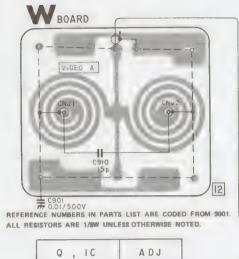


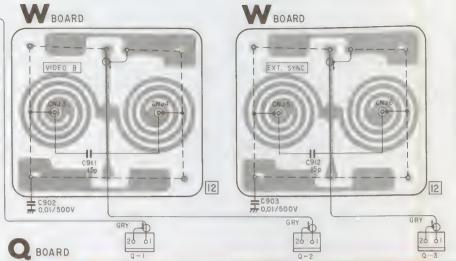
③ 0.92 Vp-p (H) SYNC switch : EXT position

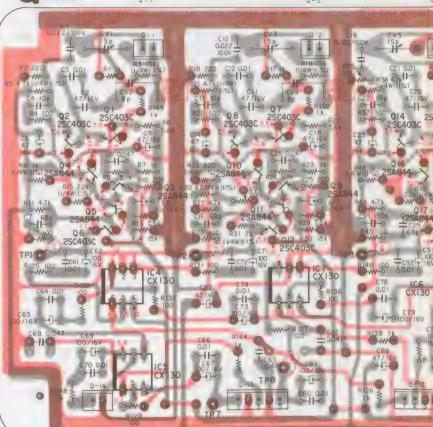
6 3.9 Vp-p (H)

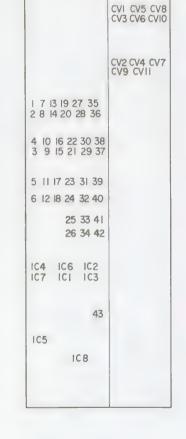


- (3) 0.76 Vp-p (H) Composite sync signal input and SYNC switch: INT position
- 4 0.96 Vp-p (H) Composite sync signal input

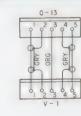


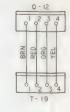


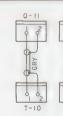




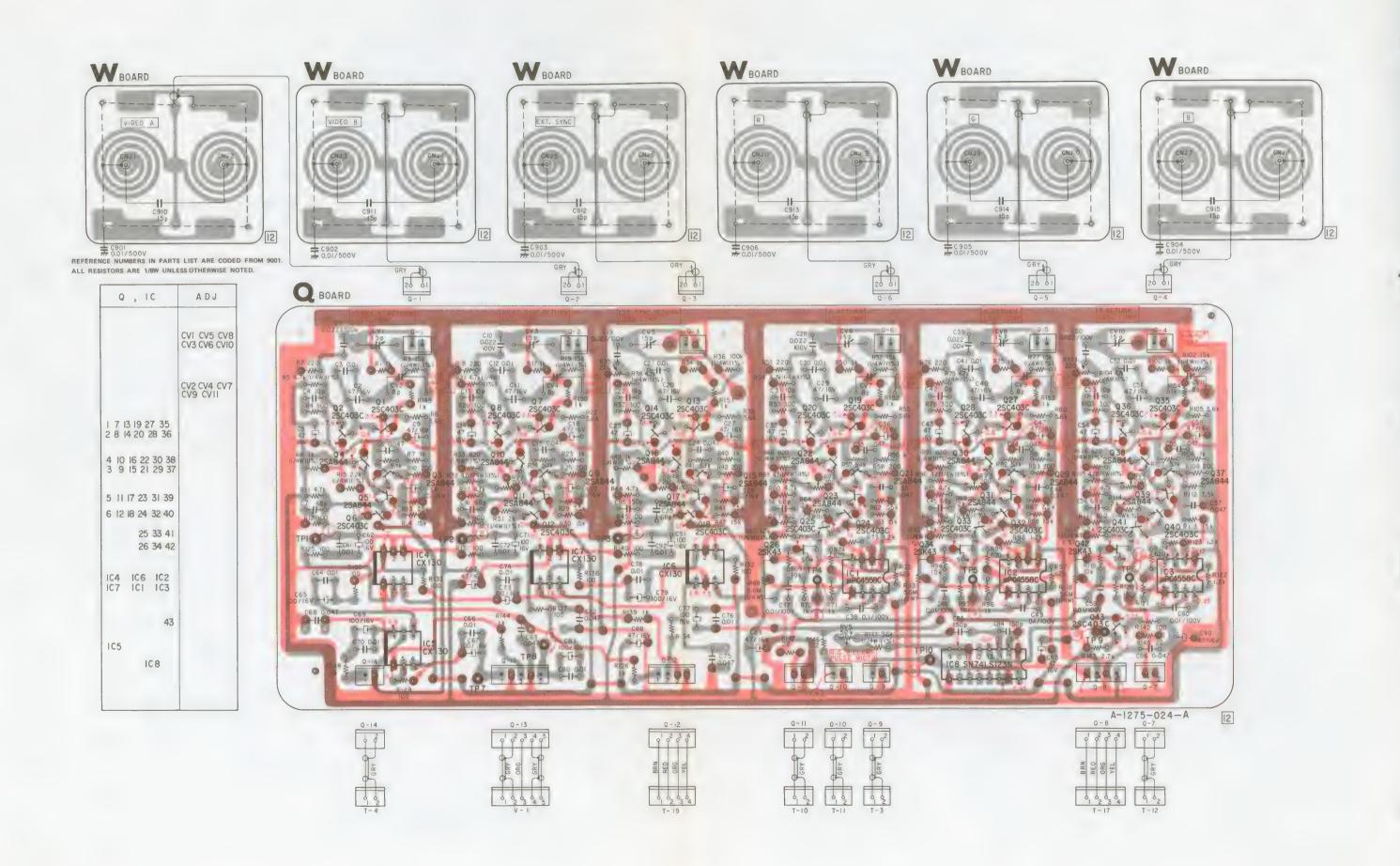




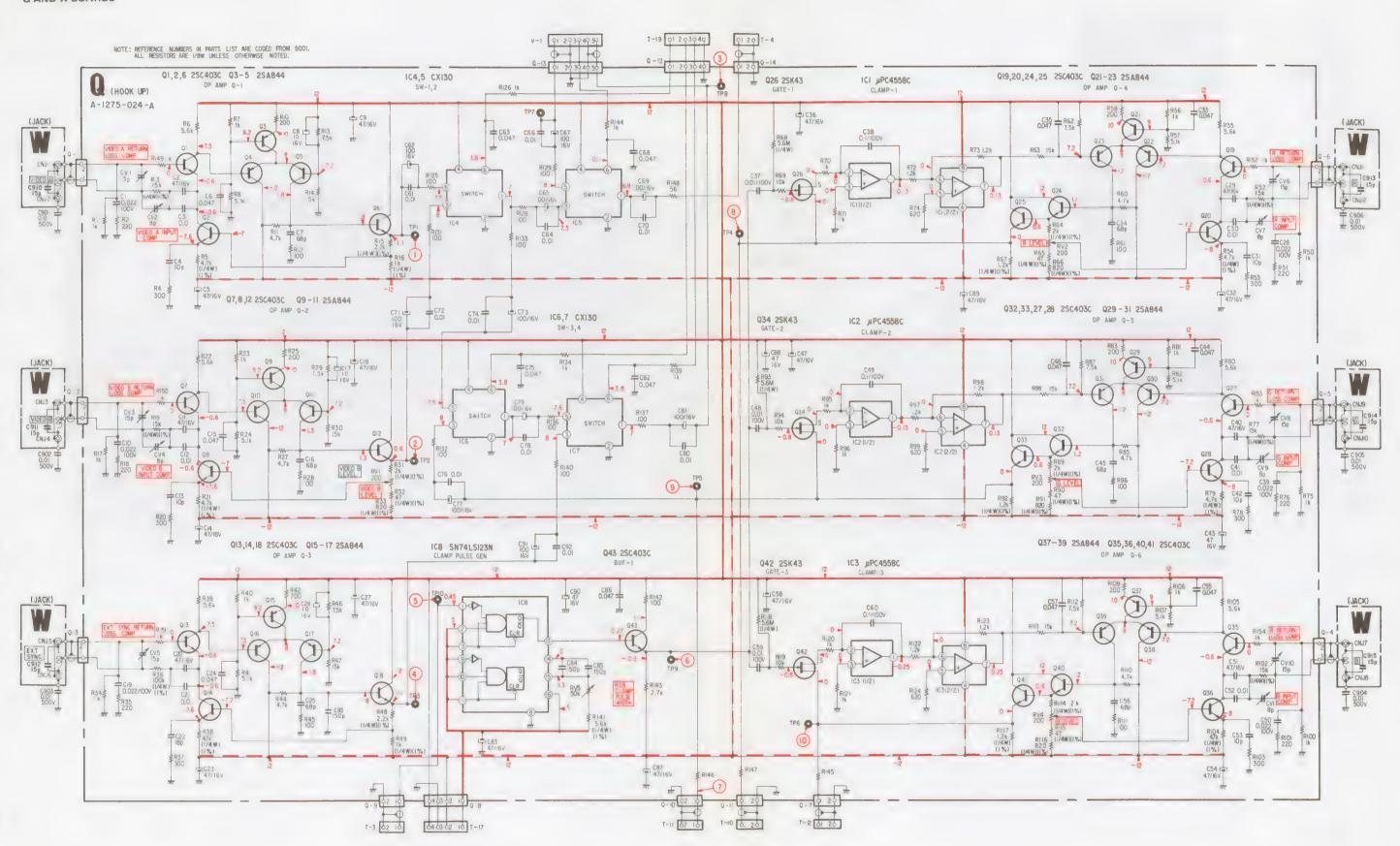




- Note: Reference numbers on the P board are of the 9000 series. (i.e., R1:R9001, C1:C9001, etc.)
 - See page 6-1 for other notes.



Q AND W BOARDS



6-58

V BOARD





SN74LS123N SN74LS279N



μPC1555C μPC4558C



2SA844 2SA1027R



2SC403C



IS1555





78 5.4 Vp-p (H)



79 4.4 Vp-p (H)

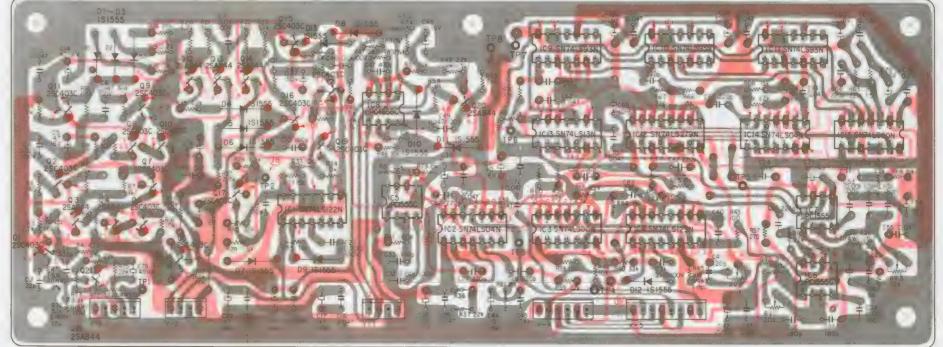


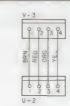
80 5.4 Vp-p (V)

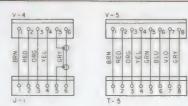


109 1010 ICH 108 20 16 IC 12 1015 1013 IC 14 19 IC5 102 IC7 IC6 101 IC 4 IC 3 1 2 3 12 ADJ RV2 RVI RV3

REFERENCE NUMBERS IN PARTS LIST ARE CODED FROM 301 ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.



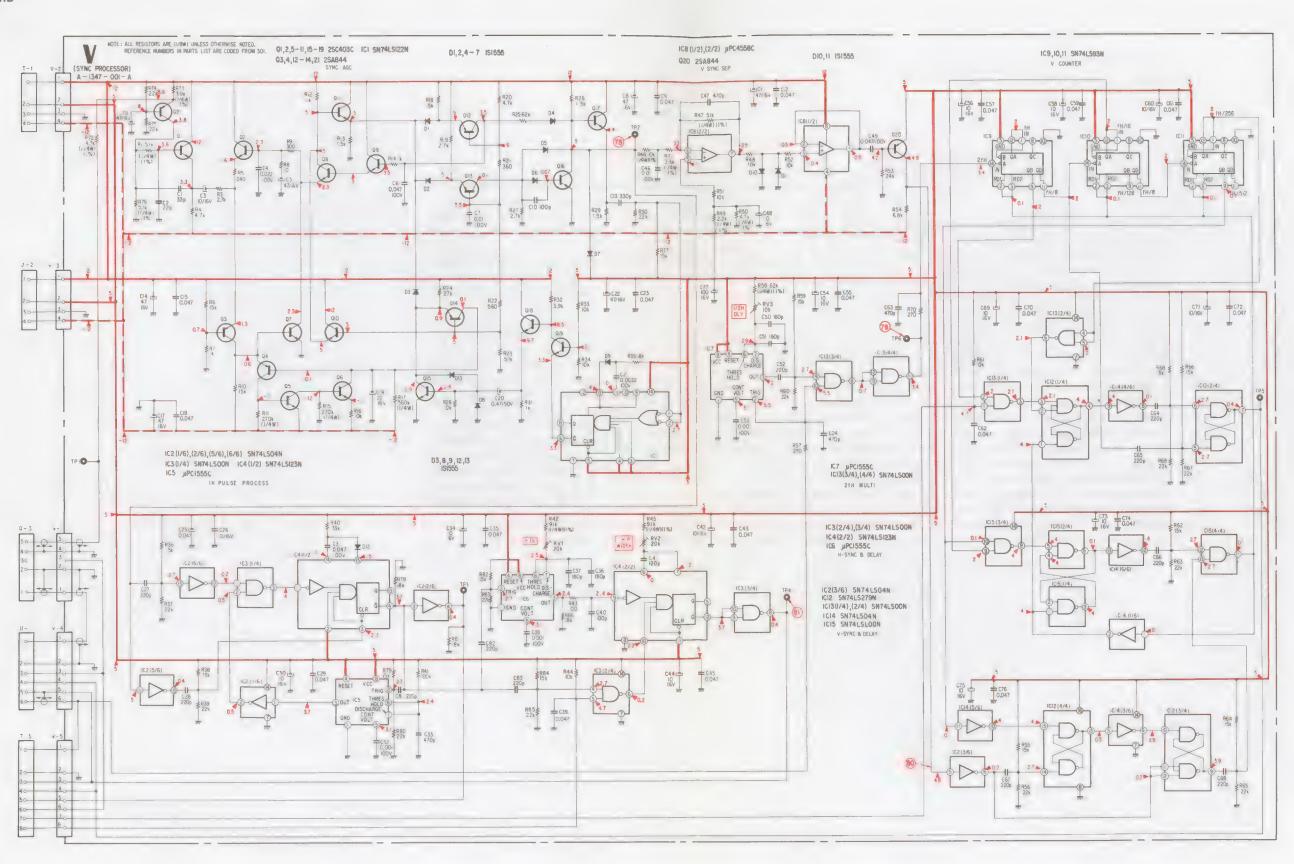




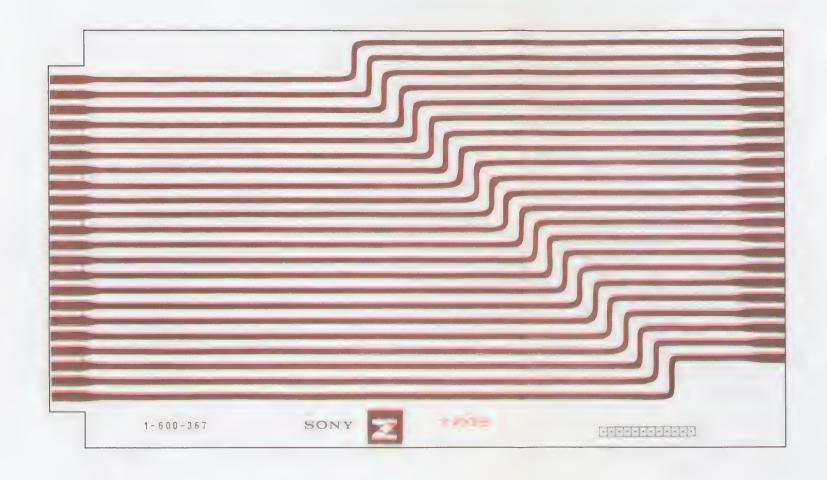
A-1347-001-A 12

- Note: Reference numbers on the V board are of the 300 series. (i.e., R1:R301, C1:C301, etc.)
 - See page 6-1 for other notes.

V BOARD

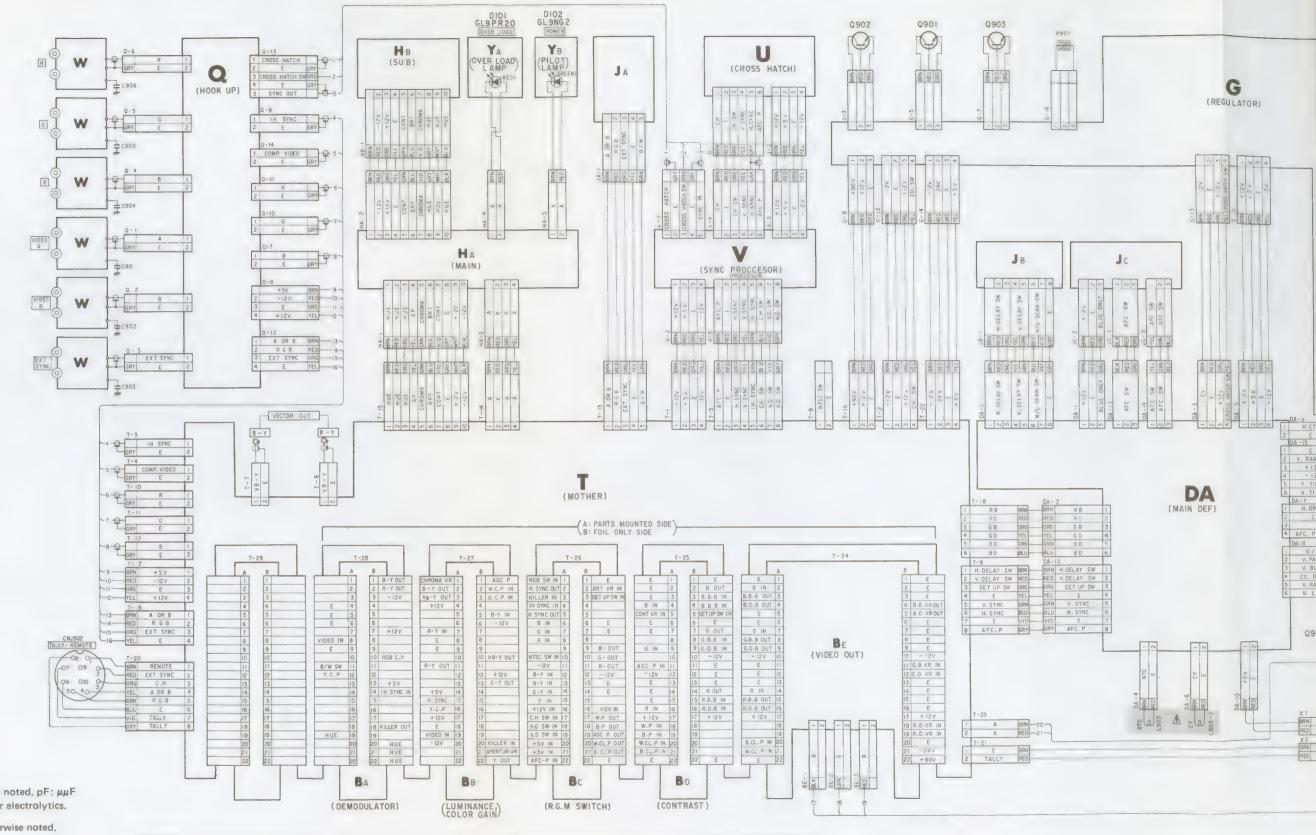


Z BOARD



6-63

6-2. FRAME WIRING DIAGRAM



Note: • All capacitors are in μF unless otherwise noted, pF: μμF 50 WV or less are not indicated except for electrolytics.

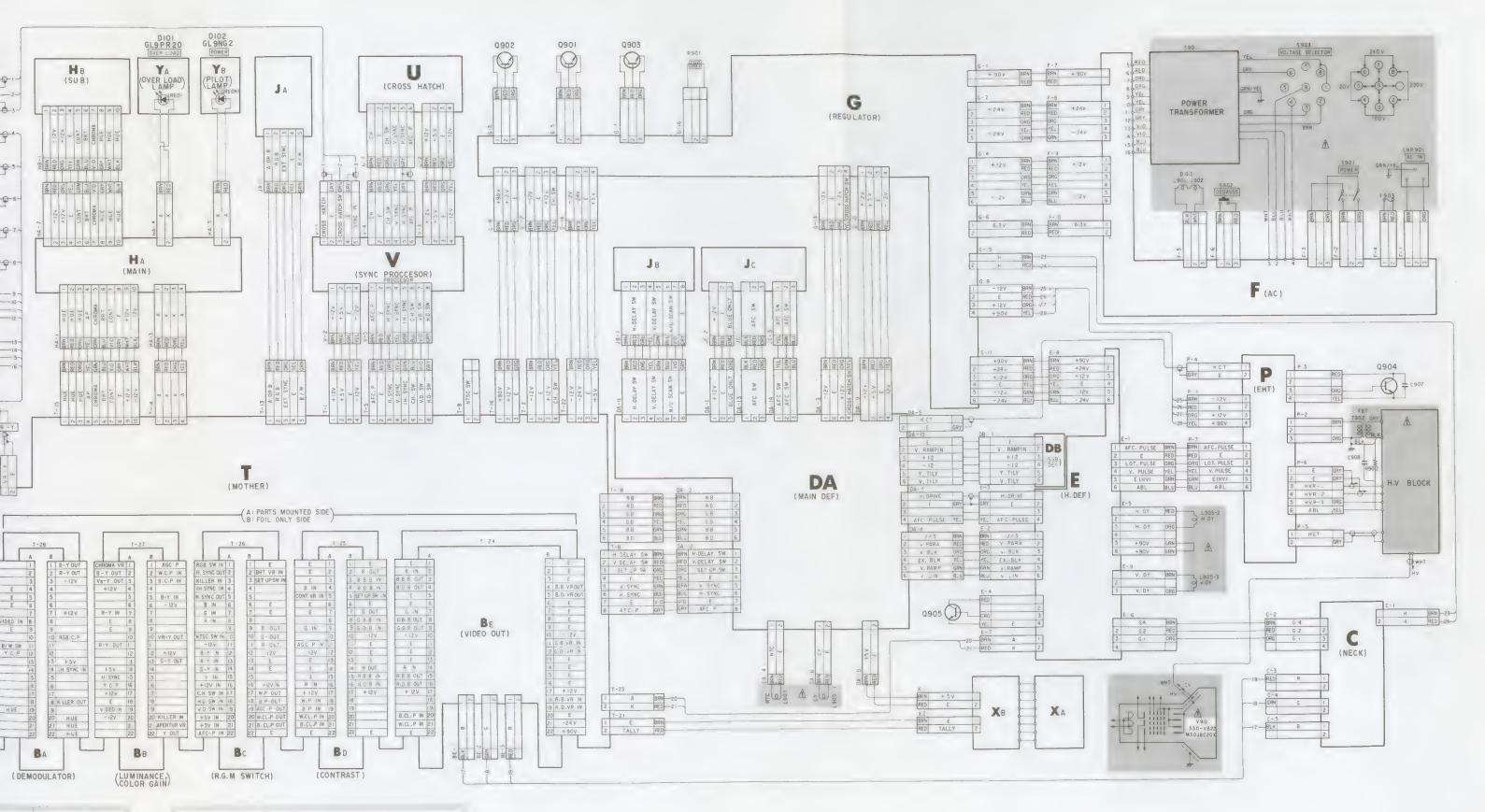
• All resistors are in ohms, ½ W unless otherwise noted. $k\Omega$: 1000 Ω ; $M\Omega$: 1000 $k\Omega$

• direct connection to points marked on the chassis

• panel designation.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



by shading and mark A

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 7 EXPLODED VIEWS

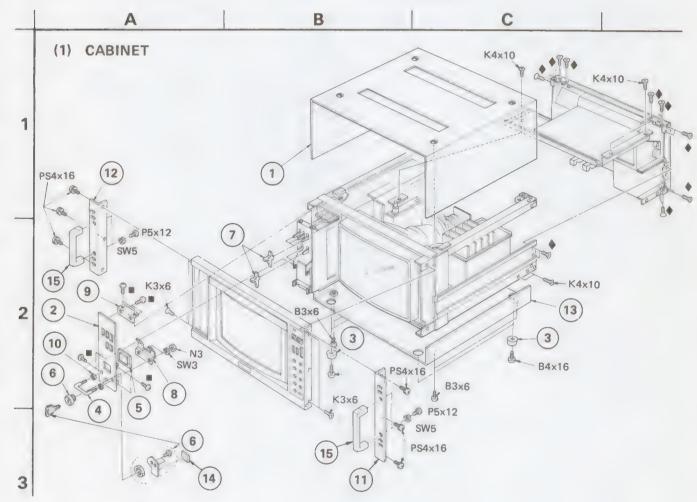
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: • As to the part numbered with E-, refer to the electrical

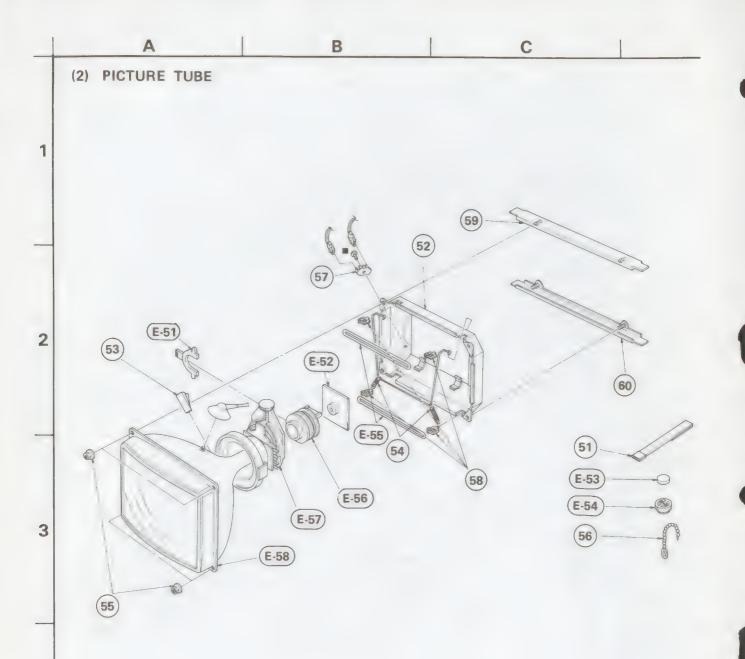
 The construction parts of an assembled part are indicated with a collation number in the remark column.

Note: Items marked "\$" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

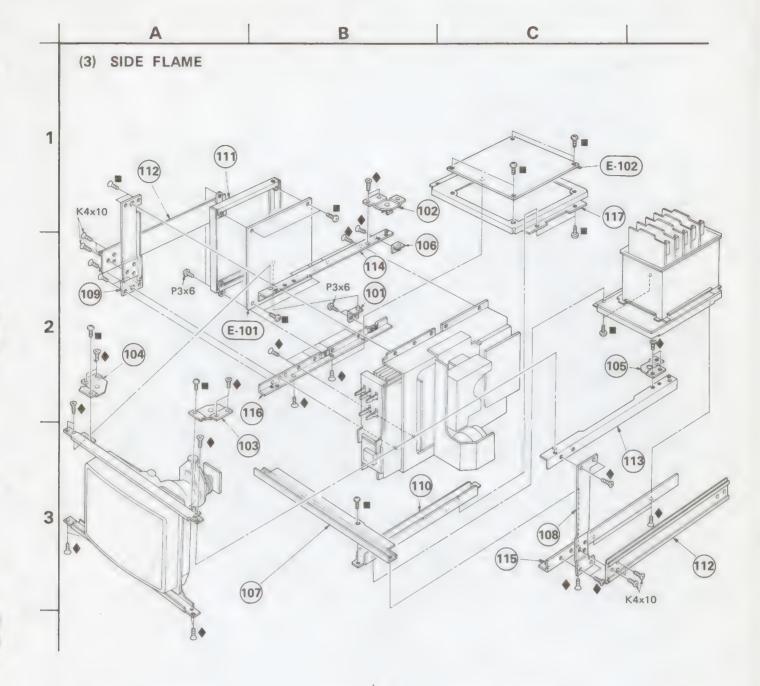
- All screws are Phillips (cross recess) type unless otherwise noted. (-) = slotted head
- : TA, BV 3 x 8
- ♦ : K3×6



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|--------------|--------------------|--------|-----|----------------------|-------------------------|--------|
| 1 | X-4335-902-0 | Cover Ass'y | | 8 | 4-335-956-00 | Bracket, lamp cover | |
| 2 | X-4335-903-4 | Drawer | | 9 | 4 -335-958-00 | Bracket (E) | |
| 3 | X-4838-902-X | Foot, rubber | | 10 | 4-335-959-02 | Ring, ornamental | |
| | | | | 11 | | Mounting Bracket, right | |
| 4 | 4-335-904-02 | Drawer Pull | | 12 | 4 -335-964-00 | Mounting Bracket, left | |
| 5 | 4-335-907-00 | Cover, lamp | | 13 | 4-335-983-00 | Plate, bottom | |
| 6 | 4-335-937-00 | Drawer Keyhole | | 14 | 4-337-209-00 | Cushion | |
| 7 | 4-335-954-02 | Knob, lever switch | | 15 | 4-337-212-00 | Handle | |

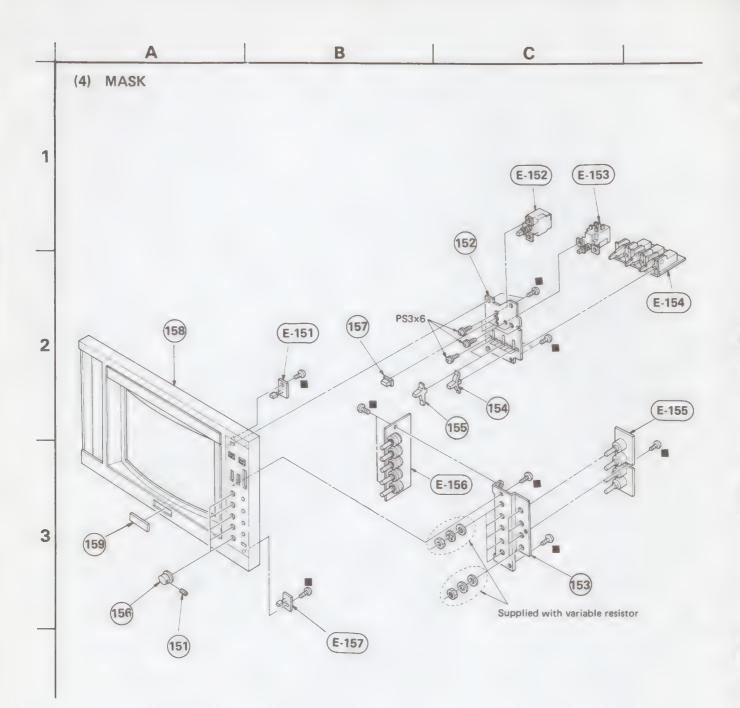


| No. | Part No. | Description | Remark | |
|----------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------|
| 51 52 | | Permalloy Ass'y, convergence compensation Shield picture tube | | |
| 53 54 55 56 | | Spring Nut, flange Clip, lead wire | | |
| 57 58 59 60 | 4-316-015-004-335-947-00 | Terminal, ground Holder, wire Bracket (Upper), picture tube Bracket (Lower), picture tube | they are selde | d """ are not stocked since om required for routine service, should be anticipated when a items. |



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|--------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|--------------------------------------------------------------------------|---------------------------------------|--------|
| 102 103 104 105 | 4-335-919-00 4-335-920-00 | Bracket, fastener; left rear Bracket, fastener; right front Bracket, fastener; left front Bracket, fastener; right rear | | 111 112 113 | 4-335-961-004-335-966-004-335-967-00 | Bracket, E board | |
| 108 | • 4-335-940-00 • 4-335-941-00 • 4-335-942-00 | Frame, right | | | | Frame, left lower Bracket, G board | |

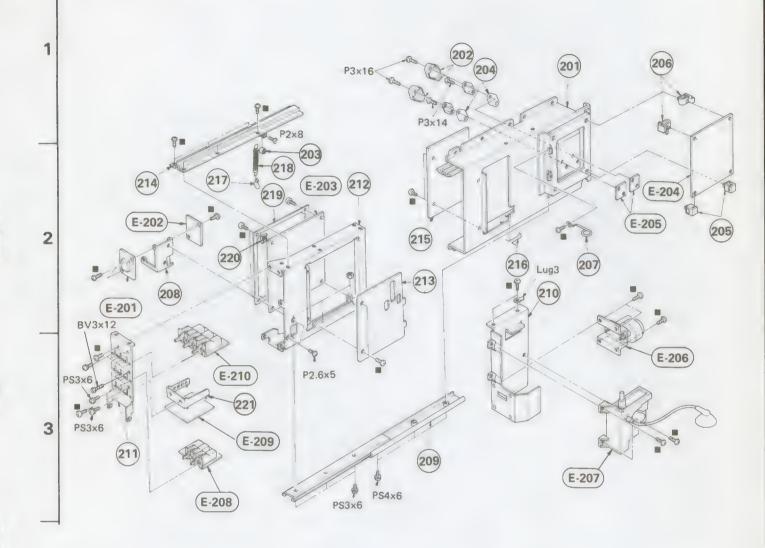
Note: Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



| <u>No.</u> | Part No. | Description | Remark | |
|--------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|-------------------------------------------|
| 151 152 153 154 | 4-335-906-004-335-945-004-335-953-02 | Set Screw, double point 3 x 4 Bracket, pushbutton switch Bracket, control Knob, lever switch | | |
| 155 156 157 158 | | Knob, lever switch Knob, control Pushbutton Panel, front | | rked "•" are not stocked since |
| 159 | 4-836-828-11 | Emblem, SONY | Some del | ay should be anticipated when hese items. |

A B C

(5) CHASSIS (LEFT)



| No. | Part No. | Description | Remark No. | Part | t No. | Description | Remark |
|-----|-----------------------|--------------------------|------------|---------------|-----------|------------------------------|--------|
| 201 | ♦ X-4335-901-0 | Housing Ass'y, Slider | 211 | 4-33 | 35-957-00 | Bracket (L), lever switch | |
| | | | 212 | a 4-33 | 35-965-00 | Bracket, D board | |
| 202 | 2-234-429-11 | Cover, safety transistor | 213 | 4-33 | 35-979-00 | Plate, indication adjustment | |
| 203 | 3-657-841-11 | Spacer | 214 | å 4-33 | 35-980-00 | Slider | |
| 204 | 3-701-353-00 | Spacer, mica | 215 | 4-33 | 35-992-00 | Plate (L), shield | |
| 205 | 3-701-903-00 | Holder, circuit board | 216 | 6 4-33 | 35-993-00 | Click (A) | |
| 206 | 3-703-141-00 | Holder, circuit board | 217 | 4-33 | 35-995-00 | Ring | |
| 207 | 4-303-731-00 | Hook, lead wire | 218 | 4-33 | 35-996-00 | Spring | |
| 208 | 4-335-910-00 | Bracket, X board | 219 | 4-33 | 37-206-00 | Cover, D board | |
| 209 | 4-335-949-00 | Rail, guide | 220 | 4-33 | 37-210-00 | Plate (D) Ground | |
| 210 | 4-335-950-00 | Bracket, FBT | 221 | ♦ 4-33 | 37-215-00 | Bracket (DB) PC Baord | |

Note: Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

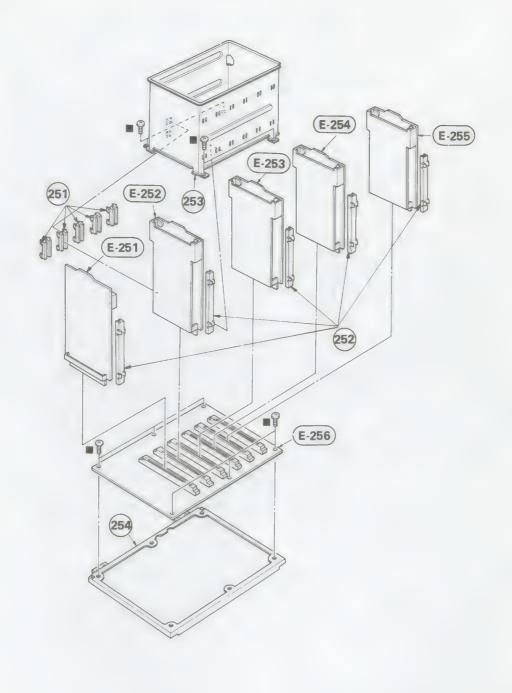
(6) T BOARD

1

2

3

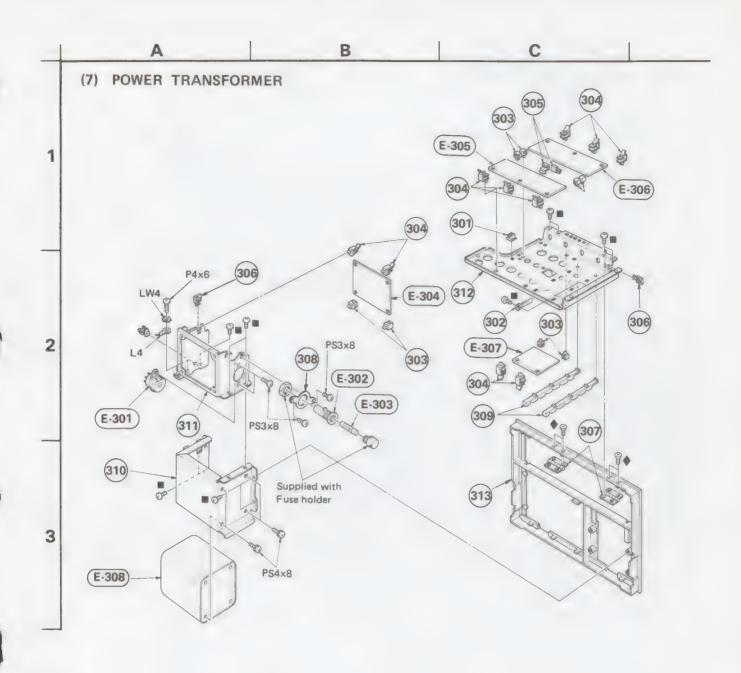
4



| No. | | Part No. | Description | Remark |
|-----|---|--------------|-------------|--------|
| 251 | ě | 4-335-930-00 | Guide (S) | |
| 252 | ě | 4-335-931-00 | Guide (L) | |
| 253 | å | 4-335-951-00 | Box, guide | |

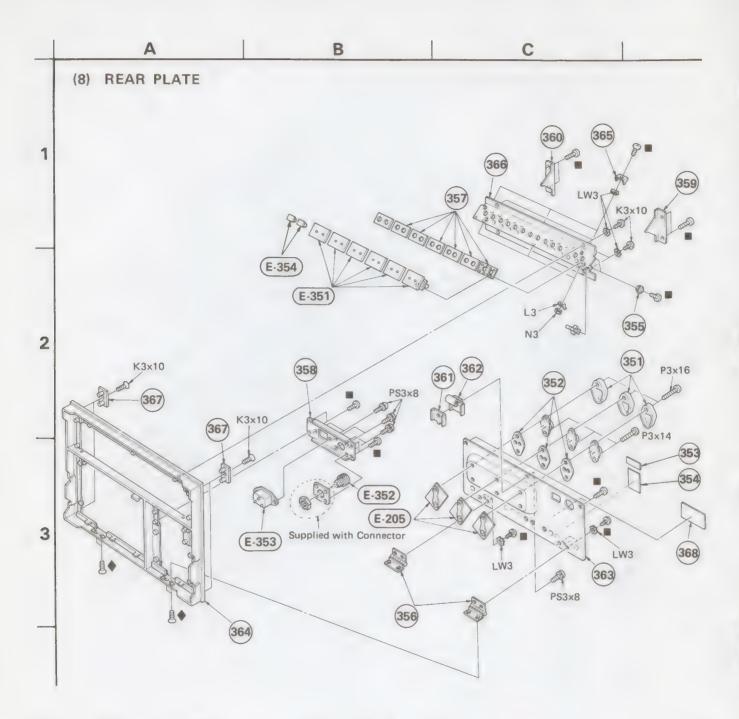
254 • 4-335-972-00 Bracket, T board

Note: Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|---------------------|-----------------------|--------|-----|----------------------|--------------------------------|--------|
| 301 | 3-642-310-00 | Holder, circuit board | | 308 | 4 -335-932-00 | Bracket, fuse | |
| 302 | 3-701-822-00 | Holder, wire | | 309 | 4-335-939-00 | Stopper, circuit board | |
| 303 | 3-701-903-00 | Holder, circuit board | | 310 | 4-335-952-00 | Bracket, PT | |
| 304 | 3-703-141-00 | Holder, circuit board | | 311 | 4-335-970-00 | Bracket, F board | |
| 305 | 4-308-838-00 | Holder, circuit board | | 312 | 4-335-974-00 | Bracket, circuit board (upper) | |
| 306 | 4-316-015-00 | Holder, wire | | 313 | 4 -335-977-00 | | |
| 307 | 4-335-902-00 | Hinge | | | | | |
| | | | | | | | |

Note: Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



| No. | Part No. | Description | Remark | No. | | Part No. | Description | Remark |
|-----|--------------------------------|--------------------------------|--------|-----|---|--------------|-------------------------------|--------|
| 351 | 2-234-429-11 | Cover, safety transistor | | 360 | å | 4-335-934-00 | Plate (L), side | |
| 352 | 2-825-003-00 | Spacer | | 361 | | 4-335-935-00 | Retainer, click | |
| 353 | 3-701-829-01 | Label, X-ray certif (Canadian) | | 362 | | 4-335-936-00 | Click (B) | |
| 354 | 4-017-439-00 | Label, X-ray | | 363 | å | 4-335-973-00 | Plate, rear | |
| 355 | 4-335-901-00 | Bushing, BNC connector | | 364 | å | 4-335-977-00 | Frame, rear | |
| 356 | 4-335-903-00 | Hinge, rear plate | | 365 | | 4-335-978-00 | Terminal BNC ground | |
| 357 | 4-335-927-00 | Terminal (S), ground | | 366 | | 4-335-981-00 | Plate, connector | |
| 358 | 4-335-928-00 | Bracket, AC IN connector | | 367 | | 4-335-986-00 | Foot, rear | |
| 359 | 4-335-933-00 | Plate (R), side | | 368 | å | 4-349-001-00 | Label, model number, (Larger) | |

Note: Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 8 ELECTRICAL PARTS LIST

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque

A sont critiques pour la sécurité. Ne les remplacer que
par une pièce portant le numéro spécifié.

- Note: All capacitors are in μ F and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p: $\mu\mu$ F, elect: electrolytic
 - All resistors are in ohms, 1/8 W, 5% tolerances unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
 - All coils are microinductors unless otherwise noted.
 - Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 kΩ: 1000Ω, MΩ: 1000kΩ
- All variable and adjustable resistors are metal oxide unless otherwise noted.
- OD% and (DD p): indicates tolerance of value.
 1% → ±1% tolerance
 (0.25 p) → ±0.25 p tolerance
 All electrolytics' tolerances are ±20%.
- Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Des | criptio | n Remark | Ref. No. | Part No. | \underline{D} | escriptio | n Rema |
|-------------------|-----------------|--------------|---------|-----------|------------|--------------|-----------------|-----------|-----------|
| 1. BA BOAR | D | | | | C1031 | 1-109-661-00 | 33p | 500V | 1% mica |
| | | | | | C1032,1033 | 1-123-316-00 | 10 | 16V | elect |
| ♣ <i>£</i> | A-1135-080-A BA | A Board, com | plete | E-255 | C1034 | 1-123-319-00 | 47 | 16V | elect |
| | | | | | C1035 | 1-101-006-00 | 0.047 | | |
| | CAPAC | ITORS | | | C1036 | 1-101-004-00 | 0.01 | | |
| C1001 | 1-101-006-00 | 0.047 | | | C1037 | 1-123-319-00 | 47 | 16V | elect |
| C1002,1003 | 1-123-316-00 | 10 | 16V | elect | C1038 | 1-102-822-00 | 390p | | 5% |
| C1004 | 1-102-883-00 | 27p | | 5% | C1039 | 1-123-316-00 | 10 | 16V | elect |
| C1005 | 1-108-626-00 | 0.01 | 100V | 10% mylar | C1040 | 1-101-001-00 | 0.001 | | |
| C1006 | 1-101-006-00 | 0.047 | | | C1041 | 1-123-319-00 | 47 | 16V | elect |
| C1007 | 1-102-935-00 | 2p | (0.23 | Sp) | C1042 | 1-109-688-00 | 430p | 500V | 1% mica |
| C1008-1013 | 1-101-006-00 | 0.047 | | | C1043 | 1-109-677-00 | 150p | 500V | 1% mica |
| C1014 | 1-102-852-00 | 47p | | 0.5% | C1044 | 1-109-661-00 | 33p | 500V | 1% mica |
| C1015 | 1-102-508-00 | 10p | | (0.5p) | C1045,1046 | 1-123-316-00 | 10 | 16V | elect |
| C1016,1017 | 1-123-316-00 | 10 | 16V | elect | C1047 | 1-123-319-00 | 47 | 16V | elect |
| C1018,1019 | 1-102-658-00 | 180p | | 5% | C1048 | 1-101-006-00 | 0.047 | | |
| C1020 | 1-101-006-00 | 0.047 | | | C1049 | 1-101-004-00 | 0.01 | | |
| C1021,1022 | 1-123-316-00 | 10 | 16V | elect | C1050 | 1-123-319-00 | 47 | 16V | elect |
| C1023 | 1-101-006-00 | 0.047 | | | C1051 | 1-123-316-00 | 10 | 16V | elect |
| 21024,1025 | 1-109-687-00 | 390p | 500V | 1% mica | C1052 | 1-102-822-00 | 390p | | 5% |
| 1026 | 1-109-685-00 | 330p | 500V | 1% mica | C1053 | 1-101-001-00 | 0.001 | | |
| C1027 | 1-102-504-00 | 4p | | (0.25p) | C1054 | 1-108-630-00 | 0.022 | 100V | 10% mylar |
| C1028 | 1-123-319-00 | 47 | 16V | elect | C1055 | 1-108-632-00 | 0.033 | 100V | 10% mylar |
| C1029 | 1-109-688-00 | 430p | 500V | 1% mica | C1056 | 1-123-316-00 | 10 | 16V | elect |
| C1030 | 1-109-677-00 | 150p | 500V | 1% mica | C1057 | 1-108-638-00 | 0.1 | 100V | 10% mylar |

| Ref. No. | Part No. | Description | n Remark | Ref. No. | Part No. | Descript | ion Remark |
|---------------------|--------------|--------------------------|------------------|----------------|--------------|------------------------------------|-----------------|
| C1058 | 1-108-630-00 | 0.022 100V | 10% mylar | Q1001, 1002, 1 | 1005, | | |
| C1059 | 1-108-632-00 | 0.033 100V | 10% mylar | 1006, 1007, 1 | | | |
| C1060 | 1-123-351-00 | 0.47 50V | elect | 1010-1013, | | 0 224 225 01 | |
| C1061,1062 | 1-101-006-00 | 0.047 | | 1015, 1016, | 1018, | 8-724-375-01 | |
| C1063 | 1-123-351-00 | 0.47 50V | elect | 1019, 1023, | 1 | 2SC403C | |
| | | | | 1025, 1026, | 1028, | | |
| C1065 | 1-123-316-00 | 10 16V | elect | 1029, 1037 |) | | |
| C1066-1069 | 1-102-888-00 | 150p | 5% | ⇒ Q1004, 1008, | | | |
| C1070 | 1-123-316-00 | 10 16V | elect | ⇒ 1014, 1017, | | 8-729-612-77 | |
| C1071 | 1-101-006-00 | 0.047 | | ⇒ 1024, 1027, | 1032, | 2SA1027R | |
| C1072,1073 | 1-123-316-00 | 10 16V | elect | ⇒ 1035, 1036 | } | | |
| | | | | | 8-729-663-47 | 2SC1364 | |
| | DIOE | DES | | | | | |
| ⇒ D1001 | 8-719-143-07 | RD4.3E-B | | | RESIST | TORS | |
| D1002 | 8-712-500-00 | IT25-0 | | R1001 | 1-246-771-00 | 100 | carbon |
| D1004,1005 | 8-719-815-55 | 1S1555 | | R1001 | 1-246-771-00 | 10k | carbon |
| ⇒ D1006,1007 | 8-719-143-07 | RD4.3E-B | | R1002 | 1-246-796-00 | 10k 12k | carbon |
| D1008 | 8-719-815-55 | 1S1555 | | R1004 | 1-246-794-00 | 8.2k | carbon |
| | | | | R1005 | 1-246-783-00 | 1k | carbon |
| ⇒ D1009 | 8-719-422-21 | IT22AM | | K1003 | 1-240-703-00 | 110 | Caroon |
| ⇒ D1010 | 8-719-143-07 | RD4.3E-B | | R1006 | 1-214-140-00 | 2.2k ¼W | 1%, metal oxide |
| | IC | • | | R1007 | 1-246-864-00 | 51k | carbon |
| | .0 | • | | R1008 | 1-202-473-11 | 5.6M 5% ¼W | compsition |
| IC1001 | 8-759-156-20 | μPC562C | | R1009 | 1-202-455-11 | 1M 5% ¼W | composition |
| | 8-751-300-00 | CX130 | | R1010 | 1-214-124-00 | 470 ¼W | 1% metal oxide |
| | 8-759-145-58 | μPC4558C | | | | | |
| IC1006 | 8-759-901-23 | SN74LS123N | | R1011 | 1-214-128-00 | 680 ¼W | 1% metal oxide |
| IC1007 | 8-759-900-00 | SN74LS00N | | R1012 | 1-214-152-00 | 6.8k ¹ / ₄ W | 1% metal oxide |
| | | | | R1013 | 1-246-853-00 | 6.2k | carbon |
| IC1008 | 8-759-900-26 | SN74LS26N | | R1014 | 1-214-108-00 | 100 ½W | 1% metal oxide |
| | COI | LS | | R1015 | 1-246-788-00 | 2.7k | carbon |
| L1001 | 1-409-193-21 | 100µH | 3.58MHz, trap | R1016 | 1-246-771-00 | 100 | carbon |
| L1001 L1002,1003 | 1-407-705-00 | 100µH | 10% | R1017-1019 | 1-246-789-00 | 3.3k | carbon |
| L1002,1003 | 1-407-571-00 | Variable, 22µH | | R1020 | 1-214-136-00 | 1.5k ½W | 1% metal oxide |
| L1004 | 1-409-193-21 | Variable, 22μ11 100μH | 3.58MHz, trap | R1021 | 1-246-771-00 | 100 | carbon |
| L1006 | 1-407-573-00 | Variable, 47µH | Dio Orazza, trap | R1022-1026 | 1-214-136-00 | 1.5k ¼W | 1% metal oxide |
| 14000 | | 100 11 | 0.501411 | R1027 | 1-214-139-00 | 2k ½W | 1% metal oxide |
| L1007 | 1-409-193-21 | 100μΗ | 3.58MHz, trap | R1028 | 1-214-154-00 | 8.2k ¼W | 1% metal oxide |
| L1008 | 1-407-573-00 | Variable, 47μH | | | 1-246-771-00 | 100 | carbon |
| | TRANSI | STORS | | R1031 | 1-214-164-00 | 22k ¼W | 1% metal oxide |
| | | | | R1032 | 1-246-785-00 | 1.5k | carbon |
| ⇒ Q1003 | 8-723-301-01 | 2SK43-11 | | | | | |
| ⇒ Q1020 | 8-723-301-01 | 2SK43-11 | | R1033 | 1-246-783-00 | 1k | carbon |
| Q1021 | 8-722-384-01 | 2SK23A-840 | | R1034 | 1-246-771-00 | 100 | carbon |
| Q1032 | 8-729-612-77 | 2SA1027R | | R1035 | 1-246-787-00 | 2.2k | carbon |
| ⇒ Q1030 | 8-723-301-01 | 2SK43-11 | | R1036 | 1-246-771-00 | 100 | carbon |
| | | | | R1037 | 1-246-797-00 | 15k | carbon |
| ⇒ Q1031 | 8-722-384-01 | 2SK23A-840 | | | | | |
| Q1022 | 8-760-413-00 | 2SC1475 | | R1038 | 1-246-808-00 | 120k | carbon |
| ⇒ Q1033,1034 | 8-723-301-01 | 2SK43-11 | | R1039 | 1-246-795-00 | 10k | carbon |

| Ref. No. | Part No. | | Descript | rion Remark | Ref. No. | Part No. | | Descript | ion | Remark |
|------------|--------------|--------------|----------|----------------|----------------|------------------------------|--------------|------------|---------|-----------------------------------------|
| R1040 | 1-246-797-00 | 15k | | carbon | R1089 | 1-214-168-00 | 33k | 1/4W | 1% m | etal oxide |
| R1041 | 1-246-848-00 | 2.4k | | carbon | R1090 | 1-246-800-00 | 27k | /4 11 | carbo | |
| R1042 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide | 11070 | 2 70-000-00 | LIK | | varuu | ** |
| | | | | | R1091 | 1-214-168-00 | 33k | 1/4W | 1% m | etal oxide |
| R1043 | 1-214-090-00 | 18 | 1/4W | 1% metal oxide | R1092 | 1-202-473-11 | | 5% ¼W | | sition |
| R1044 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide | R1093 | 1-246-783-00 | 1k | 3 /0 /4 11 | _ | |
| R1045 | 1-214-090-00 | 18 | 1/4W | 1% metal oxide | R1094 | 1-246-771-00 | 100 | | carbo | |
| R1046 | 1-246-791-00 | 4.7k | | carbon | R1095 | | | | carbo | |
| R1047,1048 | 1-246-771-00 | 100 | | carbon | K1093 | 1-246-803-00 | 47k | | carbo | n |
| | | | | | R1096 | 1 202 455 11 | 11./ | 5% ¼W | | |
| R1049 | 1-246-793-00 | 6.8k | | carbon | R1097,1098 | 1-202-455-11 1-214-148-00 | 1M 4.7k | | - | osition |
| R1050 | 1-246-771-00 | 100 | | carbon | R1099 | 1-214-141-00 | 4.7k 2.4k | 1/4W | | etal oxide |
| R1051 | 1-246-792-00 | 5.6k | | carbon | R1100 | 1-246-795-00 | | 1/4W | | etal oxide |
| R1052 | 1-246-789-00 | 3.3k | | carbon | R1101 | | 10k 3k | 1/317 | carbo | |
| R1053 | 1-246-793-00 | 6.8k | | carbon | KIIUI | 1-214-143-00 | 3K | 1/4W | 1% m | etal oxide |
| | | 0,01 | | | R1102 | 1-202-455-11 | 1M | 5% 1/4W | comm | osition |
| R1054 | 1-246-853-00 | 6.2k | | carbon | R1102 | 1-202-433-11 | 100k | 370 74 W | _ | etal oxide |
| R1055 | 1-246-781-00 | 680 | | carbon | R1104 | 1-246-795-00 | 100k | 74 W | carbo | |
| R1056 | 1-246-853-00 | 6.2k | | carbon | R1105,1106 | 1-246-803-00 | 47k | | carbo | |
| R1057 | 1-246-788-00 | 2.7k | | carbon | R1107 | 1-246-781-00 | 680 | | carbo | |
| R1058 | 1-246-790-00 | 3.9k | | carbon | KIIO | 1-240-761-00 | 000 | | caroc | 711 |
| | | | | VII. 2 0 1. | R1108 | 1-246-853-00 | 6.2k | | carbo | n n |
| R1059 | 1-246-807-00 | 100k | | carbon | R1109 | 1-246-787-00 | 2.2k | | carbo | |
| R1060 | 1-246-795-00 | 10k | | carbon | R1110 | 1-246-788-00 | 2.7k | | carbo | |
| R1061 | 1-244-867-00 | 560 | ½W | carbon | R1111 | 1-246-779-00 | 470 | | carbo | |
| R1062 | 1-246-797-00 | 15k | ,_,, | carbon | R1112 | 1-246-865-00 | 62k | | carbo | |
| R1063 | 1-246-848-00 | 2.4k | | carbon | KIIIZ | 1-240-003-00 | OZK | | caroc |)11 |
| | 12.00.00 | 2. 110 | | Caroon | R1113 | 1 347 046 00 | 270k | | oo nh o | |
| R1064 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide | R1113 | 1-247-046-00 | | | carbo | |
| R1065 | 1-214-090-00 | 18 | 1/4W | 1% metal oxide | R1114 R1115 | 1-246-788-00 1-214-142-00 | 2.7k | 1/4W | | netal oxide |
| R1066 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide | | | 2.7k | | | |
| R1067 | 1-214-090-00 | 18 | 1/4W | 1% metal oxide | R1116 R1117 | 1-214-163-00 1-246-795-00 | 20k 10k | 1/4W | | etal oxide |
| R1068 | 1-246-791-00 | 4.7k | 7-411 | carbon | KIII/ | 1-240-793-00 | TUK | | carbo | 11 |
| | | 74,726 | | var o o n | D 1 1 1 0 | 1 247 050 00 | 1.61- | | | |
| R1069-1071 | 1-246-771-00 | 100 | | carbon | R1118 | 1-246-858-00 | 16k | | carbo | |
| R1072 | 1-246-792-00 | 5.6k | | carbon | R1119 | 1-246-857-00 | 13k | | carbo | |
| R1073 | 1-246-789-00 | 3.3k | | carbon | R1120 | 1-246-848-00 | 2.4k | | carbo | |
| R1074 | 1-246-793-00 | 6.8k | | carbon | R1121 | 1-246-852-00 | 5.1k | 1/31/ | carbo | |
| R1075 | 1-246-853-00 | 6.2k | | carbon | R1123 | 1-214-141-00 | 2.4k | 1/4W | 1% m | etal oxide |
| 1075 | 1-240-033-00 | U.2K | | Carbon | DVIAGO | | | | CVID | ~ · · · · · · · · · · · · · · · · · · · |
| R1076 | 1-246-781-00 | 680 | | carbon | RV1001 | 1-224-937-00 | | ole, 1k | | OMA LEVEI |
| R1076 | 1-246-781-00 | 3.9k | | carbon | RV1002 | 1-226-012-00 | | ole, 2k | | PHASE |
| R1077 | 1-246-790-00 | 3.9k 2.7k | | | RV1003 | 1-224-938-00 | | ole, 2k | | LEVEL |
| | | | | carbon | RV1004 | 1-224-938-00 | | ole, 2k | | LEVEL |
| R1079 | 1-246-790-00 | 3.9k | | carbon | RV1005 | 1-224-941-00 | Varial | ole, 20k | HUE | |
| R1080 | 1-246-807-00 | 100k | | carbon | | | | | | |
| 0.1001 | 1 246 705 00 | 1.01 | | | RV1006 | 1-224-940-00 | Variat | ole, 10k | | ST CLAMP |
| R1081 | 1-246-795-00 | 10k | 1/31/ | carbon | | | | | | SE WIDTH |
| R1082 | 1-244-867-00 | 560 | ½W | carbon | RV1007 | 1-224-941-00 | Varial | ble, 20k | | ST GATE |
| R1083 | 1-202-473-11 | | 5% ¼W | compsition | | | | | PULS | SE WIDTH |
| R1084 | 1-246-783-00 | lk | | carbon | | MICOSI | ANEGUS | | | |
| R1085 | 1-246-771-00 | 100 | | carbon | | MISCELL | ANEOUS | | | |
| 31007 | | | | | S1001 | 1-552-898-11 | Toggle | e, CLEAN | IING | |
| R1086 | 1-202-455-11 | 1 M | 5% ¼W | compsition | 51001 | 1-552-670-11 | I Oggi | o, CLEAN | 11110 | |
| R1087 | 1-246-795-00 | 10k | | carbon | ¥1001 | 1.577 206 00 | Carrot | d | | |
| R1088 | 1-202-455-11 | 1M | 5% ¼W | compsition | X1001 | 1-527-396-00 | Crysta | 11 | | |

| Ref. No. | Part No. | | Descriptio | n Remark | Ref. No. | Part No. | \underline{D} | escription | on Remark |
|-------------|------------------------------|-----------|------------|----------------------|--------------|------------------------------|-----------------|------------|----------------------|
| 2. BB BOAR | D | | | | C2043 | 1-101-004-00 | 0.01 | | |
| | A-1135-081-A | BB Board, | complete | E-254 | C2044 | 1-108-638-00 | 0.1 | 100V | 10% mylar |
| | | | | | C2045-2047 | 1-123-320-00 | 100 | 16V | |
| | CAPA | CITORS | | | C2048, 2049 | 1-102-858-00 | 10p | | (0.5p) |
| | | | | | C2050 | 1-102-851-00 | 15p | | 0.5% |
| C2002 | 1-123-316-00 | 10 | 16V | elect | | | | | |
| C2003 | 1-101-006-00 | 0.047 | | | C2051 | 1-123-319-00 | 47 | 16V | elect |
| C2004 | 1-102-504-00 | 4p | | (0.25p) | C2052 | 1-102-520-00 | 39p | | 0.5% |
| C2005 | 1-123-316-00 | 10 | 16V | elect | C2053 | 1-123-320-00 | 100 | 16V | elect |
| C2006 | 1-108-638-00 | 0.1 | 100V | 10% mylar | C2054, 2055 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C2056 | 1-101-006-00 | 0.047 | | |
| C2007 | 1-101-004-00 | 0.01 | | | | | | | |
| C2008 | 1-123-298-00 | 470 | 6.3V | elect | C2057, 2058 | 1-123-316-00 | 10 | 16V | elect |
| C2009 | 1-123-319-00 | 47 | 16V | elect | C2059 | 1-102-504-00 | 4p | | (0.25p) |
| C2010, 2011 | | 10 | 16V | elect | | 1-101-006-00 | 0.047 | | |
| C2012 | 1-101-004-00 | 0.01 | | | C2063 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C2064 | 1-101-004-00 | 0.01 | | |
| C2013 | 1-108-638-00 | 0.1 | 100V | 10% mylar | | | | | |
| C2015 | 1-123-320-00 | 100 | 16V | elect | C2065 | 1-123-319-00 | 47 | 16V | elect |
| C2016 | 1-101-006-00 | 0.047 | | | C2066 | 1-121-801-00 | 47 | 16V | elect (nonpolarized) |
| C2017 | 1-123-320-00 | 100 | 16V | elect | C2067 | 1-108-638-00 | 0.1 | | 10% mylar |
| C2018 | 1-102-504-00 | 4p | | (0.25p) | C2068 | 1-123-316-00 | 10 | 16V | |
| | | - | | | C2069 | 1-102-406-61 | 2p | | (0.25p) |
| C2019 | 1-108-638-00 | 0.1 | 100V | 10% mylar | | | | | |
| C2020 | 1-101-004-00 | 0.01 | | • | C-2070, 2071 | 1-123-321-00 | 220 | 16V | elect |
| C2021 | 1-123-298-00 | 470 | 6.3V | elect | C2072 | 1-101-880-00 | 47p | | |
| C2022 | 1-123-319-00 | 47 | 16 | elect | | | | | |
| C2023, 2024 | 1-123-316-00 | 10 | 16V | elect | | | | | |
| C2025 | 1-101-004-00 | 0.01 | | | | | | | |
| C2026 | 1-101-004-00 | 0.01 | 100V | 10% mylar | | DI | ODES | | |
| C2027 | 1-101-918-00 | 0.001 | 1004 | 10/0 mylai | | DI | ODES | | |
| C2027 | 1-101-916-00 | 10 | 16V | elect | D2001 | 9 710 151 77 | RD5.1E | 0 | |
| C2028 | 1-121-257-00 | 4.7 | 16V | elect (nonpolarized) | D2001 | 8-719-151-77 8-719-162-07 | RD6.2E | | |
| C2029 | 1-121-237-00 | 4.7 | 10 V | elect (nonpolarized) | D2002 | | | | |
| C2020 2021 | 1 122 216 00 | 10 | 16V | alact | D2003 | 8-719-156-77 | RD5.1E | | |
| C2030, 2031 | 1-123-316-00 1-102-504-00 | 10 4p | 101 | (0.25p) | D2004 | 8-719-162-07 | RD6.2E | | |
| | | 4p | 10077 | | D2003-2007 | 8-719-815-55 | 1S1555 | | |
| C2033 | 1-108-638-00 | 0.1 | 100V | 10% mylar | → D2009 | 9 710 142 07 | DD4 2E | -D | |
| | 1-101-004-00 | 0.01 | 1.0077 | 100/ | ⇒ D2008 | 8-719-143-07 | RD4.3E | | |
| C2036 | 1-108-626-00 | 0.01 | 1007 | 10% mylar | D2009 | 8-719-182-07 | RD8.2E | | |
| C2037 | 1.101.004.00 | 0.01 | | | ⇒ D2010 | 8-719-143-07 | RD4.3E | -D | |
| C2037 | 1-101-004-00 | 0.01 | | | | | | | |
| C2038 | 1-101-006-00 | 0.047 | | | | | | | |
| C2039 | 1-108-626-00 | 0.01 | | 10% mylar | | | | | |
| C2040 | 1-121-257-00 | 4.7 | 16V | elect (nonpolarized) | | 1-415-184-11 | | | Delay Line |
| C2041A | 1-101-006-00 | 0.047 | | | DL2002 | 1-415-184-21 | | | Delay Line |
| C2041B | 1-121-257-00 | 4.7 | 16V | elect (nonpolarized) | | | | | |
| CZUTID | | | | | | | | | |

Items marked "">" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | | Descript | rion Remark |
|--------------------|------------------------------|----------------------|-------------|--------------|--------------|---------|----------|-----------------------|
| | | | | ⇒ Q2031 | 8-729-612-77 | 25 4 1 | 027R | |
| | | lCs | | | 8-724-375-01 | 2SC4 | | |
| | | | | Q2032-2030 | 0-724-373-01 | 2304 | 030 | |
| IC2001 | 8-757-182-20 | CX718D | | ⇒ Q2037,2038 | 8-729-612-77 | 2SA1 | 027R | |
| | 004 8-759-145-58 | μPC4558C | | Q2039 | 8-724-375-01 | 2SC4 | | |
| IC2005 | 8-751-300-00 | CX130 | | ⇒ Q2040 | 8-723-301-01 | 2SK4 | | |
| IC2006 | 8-759-271-58 | TA7158P | | ⇒ Q2041 | 8-729-612-77 | 2SA1 | | |
| IC2007 | 8-759-145-58 | μPC4558C | | Q2042 | 8-724-375-01 | 2SC4 | | |
| IC2008 | 8-759-900-26 | SN74LS26N | | | | | | |
| | | | | | DEC | ISTORS | | |
| | C | DILS | | | nes | 131 OKS | | |
| | | | | R2001 | 1-246-771-00 | 100 | | carbon |
| L2001 | 1-409-193-21 | 3.58MHz TRAP | | R2002 | 1-214-156-00 | 10k | ⅓W | 1% metal oxide |
| L2002 | 1-407-573-00 | Variable 47µH | 2T PULSE | R2005 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide |
| | | | CORRECTION | | 1-214-132-00 | 1k | 1/4W | 1% metal oxide |
| L2003 | 1-407-566-00 | Variable 3.3µH | PL MATCHING | R2008 | 1-246-789-00 | 3.3k | | carbon |
| L2004 | 1-407-694-00 | $12\mu H$ 10% | | | | | | |
| L2005 | 1-407-688-00 | $3.9 \mu H$ 10% | | | 1-246-771-00 | 100 | | carbon |
| | | | | R2011 | 1-202-473-11 | | 5% ¼W | composition |
| | TRAN | SISTORS | | R2012 | 1-246-795-00 | 10k | | carbon |
| | INAN | 31310113 | | R2013 | 1-202-473-11 | | 5% ¼W | composition |
| Q2001-20 | 03 8-724-375-01 | 2SC403C | | R2014 | 1-214-132-00 | 1k | 1/4W | 1% metal oxide |
| ⇒ Q2004 | 8-723-301-01 | 2SK43-11 | | R2015 | 1-246-853-00 | 6.2k | | |
| Q2005 | 8-724-375-01 | 2SC403C | | R2016 | 1-214-148-00 | 4.7k | 1/4W | carbon 1% metal oxide |
| ⇒ Q2006 | 8-729-612-77 | 2SA1027R | | R2017 | 1-246-788-00 | 2.7k | /4 ** | carbon |
| Q2007 | 8-724-375-01 | 2SC403C | | R2018 | 1-202-473-11 | | 5%¼W | compositon |
| | | | | R2019 | 1-246-795-00 | 10k | 0,0,4,1 | carbon |
| ⇒ Q2008 | 8-723-301-01 | 2SK43-11 | | | | | | VIII. V VII |
| - | 11 8-724-375-01 | 2SC403C | | R2020, 2021 | 1-246-783-00 | 1k | | carbon |
| ⇒ Q2012 | 8-723-301-01 | 2SK43-11 | | R2022 | 1-246-771-00 | 100 | | carbon |
| Q2013 | 8-724-375-01 | 2SC403C | | R2023 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide |
| ⇒ Q2014 | 8-729-612-77 | 2SA1027R | | R2026 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide |
| | | | | R2027, 2028 | 1-214-132-00 | 1k | 1/4W | 1% metal oxide |
| Q2015 | 8-724-375-01 | 2SC403C | | | | | | |
| ⇒ Q2016 | 8-723-301-01 | 2SK43-11 | | R2029 | 1-246-789-00 | 3.3k | | carbon |
| _ | 20 8-724-375-01 | 2SC403C | | R2030, 2031 | 1-246-771-00 | 100 | | carbon |
| ⇒ Q2021 | 8-723-301-01 | 2SK43-11 | | R2032 | 1-202-473-11 | 5.6M | 5% ¼W | composition |
| Q2022 | 8-724-375-01 | 2SC403C | | R2033 | 1-246-795-00 | 10k | | carbon |
| 02022 | 0 722 201 01 | 201/42 11 | | R2034 | 1-202-473-11 | 5.6M | 5% ¼W | composition |
| Q2023 | 8-723-301-01 8-729-612-77 | 2SK43-11 2SA1027R | | | | | | |
| ⇒ Q2024 | 8-724-375-01 | 2SC403C | | R2035 | 1-214-132-00 | 1k | 1/4 W | 1% metal oxide |
| Q2025 ⇒ Q2026 | | 2SK43-11 | | R2036 | 1-246-853-00 | 6.2k | | carbon |
| ⇒ Q2026 ⇒ Q2027 | 8-723-301-01 8-729-612-77 | 2SK43-11 2SA1027R | | R2037 | 1-214-148-00 | 4.7k | 1/4W | 1% metal oxide |
| - Q2021 | 0-727-012-77 | ZSATUZ/K | | R2038 | 1-246-788-00 | 2.7k | | carbon |
| Q2028 | 8-724-375-01 | 2SC403C | | R2039 | 1-202-473-11 | 5.6M | 5%¼W | composition |
| ⇒ Q2029 | 8-723-301-01 | 2SK43-11 | | D 2040 | 1.046.86=== | 4.50 | | |
| Q2030 | 8-724-375-01 | 2SC403C | | R2040 | 1-246-795-00 | 10k | | carbon |
| £=000 | 0.2.010 01 | | | R2041, 2042 | | 1k | | carbon |
| | | | | R2043 | 1-246-794-00 | 8.2k | | carbon |

| Ref. No. | Part No. | Descri | otion Remark | Ref. No. | Part No. | | Descript | ion Remark |
|-------------|--------------|------------------------------------|------------------|----------------|----------------|---------|----------|-----------------|
| R2044 | 1-246-788-00 | 2.7k | carbon | R2095 | 1-246-795-00 | 10k | | carbon |
| R2045 | 1-214-156-00 | 10k 1/4W | | R2096, 2097 | | 2k | | carbon |
| R2046 | 1-214-145-00 | 3.6k ¹ / ₄ W | | R2098 | 1-246-786-00 | 1.8k | | carbon |
| R2047 | 1-214-156-00 | 10k 1/4W | | R2099 | 1-246-783-00 | 1k | | carbon |
| R2047 | 1-214-180-00 | 100k ¼W | | R2100, 2101 | | 4.7k | | carbon |
| K2040 | 1-214-100 00 | 10011 7411 | 270 3320 332 | K2100, 2101 | 1-2-10-7-51-00 | 7./K | | Calbon |
| R2049, 2050 | 1-214-156-00 | 10k 1/4W | 1% metal oxide | R2102 | 1-246-788-00 | 2.7k | | carbon |
| R2051, 2052 | 1-214-132-00 | 1k ¼W | 1% metal oxide | R2103 | 1-246-783-00 | 1k | | carbon |
| R2053 | 1-246-789-00 | 3.3k | carbon | R2104 | 1-246-835-00 | 200 | | carbon |
| R2054, 2055 | 1-246-771-00 | 100 | carbon | R2105 | 1-214-124-00 | 470 | 1/4W | 1% metal oxide |
| R2056 | 1-202-473-11 | 5.6M 5% ¼W | composition | R2106, 2107 | 1-214-108-00 | 100 | 1/4W | 1% metal oxide |
| R2057 | 1-246-795-00 | 10k | carbon | R2108 | 1-214-126-00 | 560 | 1/4W | 1% metal oxide |
| R2058 | 1-202-473-11 | 5.6M 5% ¼W | | R2109 | 1-214-150-00 | 5.6k | 1/4W | 1% metal oxide |
| R2059 | 1-246-789-00 | 3.3k | carbon | R2110, 2111 | | 100k | 1/4W | 1% metal oxide |
| R2060 | 1-246-795-00 | 10k | carbon | R2112 | 1-246-785-00 | 1.5 | 74 11 | carbon |
| R2061 | 1-202-473-11 | 5.6M 5% 4W | | | 1-246-842-00 | 750 | | carbon |
| | | | - | | | | | |
| R2062 | 1-246-771-00 | 100 | carbon | R2115 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide |
| R2063, 2064 | 1-246-799-00 | 22k | carbon | R2116 | 1-214-120-00 | 330 | 1/4 W | 1% metal oxide |
| R2065 | 1-246-795-00 | 10k | carbon | R2117 | 1-214-091-00 | 20 | 1/4W | 1% metal oxide |
| R2066 | 1-202-473-11 | 5.6M 5% 4V | / composition | R2118 | 1-214-120-00 | 330 | 1/4W | 1% metal oxide |
| R2067 | 1-246-795-00 | 10k | carbon | R2119 | 1-214-091-00 | 20 | 1/4W | 1% metal oxide |
| R2068 | 1-214-180-00 | 100k ¹ / ₄ V | / 1% metal oxide | P2120 | 1 246 952 00 | (21- | | and an |
| R2069 | 1-214-159-00 | 13k 4V | | R2120 | 1-246-853-00 | 6.2k | 1/337 | carbon |
| | | 12k | carbon | R2121 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide |
| R2070 | 1-246-796-00 | | | R2122 | 1-246-841-00 | 620 | | carbon |
| R2071 | 1-214-136-00 | 1.5k ¹ / ₄ V | | R2123 | 1-246-788-00 | 2.7k | | carbon |
| R2072 | 1-214-090-00 | 10 /4 1 | 1 /6 metal oxide | R2124 | 1-246-795-00 | 10k | | carbon |
| R2073 | 1-214-132-00 | 1k ½V | V 1% metal oxide | R2125 | 1-202-473-11 | 5.6M S | 5% ¼W | composition |
| R2074 | 1-214-129-00 | 750 ¼V | 1% metal oxide | R2126, 2127 | 1-246-783-00 | 1k | | carbon |
| R2075 | 1-246-853-00 | 6.2k car | bon | R2128, 2129 | 1-246-784-00 | 1.2k | | carbon |
| R2076 | 1-214-142-00 | 2.7k ¹ / ₄ V | V 1% metal oxide | R2130 | 1-246-841-00 | 620 | | carbon |
| R2077 | 1-202-473-11 | 5.6M 5% 4V | V composition | R2133 | 1-214-162-00 | 18k | 1/4 W | 1% metal oxide |
| R2078 | 1-246-795-00 | 10k | carbon | R2131 | 1-214-120-00 | 330 | 1/4W | 1% metal oxide |
| | 1-246-783-00 | 1k | carbon | R2131 R2132 | 1-214-125-00 | 510 | 1/4W | 1% metal oxide |
| R2073, 2000 | 1-246-771-00 | 100 | carbon | R2132 | 1-214-123-00 | 18k | 74 W | 1% metal oxide |
| R2082 | 1-246-795-00 | 10k | carbon | R2135 | 1-246-791-00 | 4.7k | /4 TT | carbon |
| R2083 | 1-214-142-00 | 2.7k 1/4\ | | R2135 | 1-246-787-00 | 2.2k | | carbon |
| | | | | | | | | |
| R2084 | 1-246-771-00 | 100 | carbon | R2137 } | 1-246-771-00 | 100 | | carbon |
| R2085 | 1-246-785-00 | 1.5k | carbon | R2138 J | | | | |
| R2086 | 1-246-773-00 | 150 | carbon | R2139 | 1-214-095-00 | 30 | ¼W | 1% metal oxide |
| R2087 | 1-246-788-00 | 2.7k | carbon | R2140 | 1-202-463-00 | 2.2M | 1/4W | composition |
| R2088, 2089 | 1-214-132-00 | 1k 1/4\ | V 1% metal oxide | DMAGG | 1 224 026 00 | 37 | - 500 | CVAMP |
| | 4.044.00 | 1.01 | | RV2001 | 1-224-936-00 | Variabl | , | G-Y AMP |
| R2090 | 1-246-786-00 | 1.8k | carbon | RV2002 | 1-224-937-00 | Variabl | | G-Y PHASE |
| R2091 | 1-214-139-00 | 2k 1/41 | | RV2003 | 1-224-941-00 | Variabl | , | APERTUER PRESET |
| R2092 | 1-246-791-00 | 4.7k | carbon | RV2004 | 1-224-937-00 | Variabl | | Y-LEVEL |
| R2093 | 1-246-771-00 | 100 | carbon | RV2005 | 1-224-936-00 | Variabl | e, 500 | P.L MATCHING |
| R2094 | 1-246-787-00 | 2.2k | carbon | | | | | RESISTOR |

| Ref. No. | Part No. | <u>Des</u> | criptio | n Remark | Ref. No. | Part No. | | Descripti | on | Rema |
|--------------|----------------|---------------|---------|----------------------|--------------|------------------------------|----------|-----------|-------|------|
| RV2006 | 1-224-937-00 | Variable, | 1 k | VECTOR | C3045 | 1-123-320-00 | 100 | 16V | elect | |
| | | | | LEVEL R-Y | C3046 | 1-101-006-00 | 0.047 | | | |
| RV2007 | 1-224-937-00 | Variable, | 1k | VECTOR | C3047-3049 | 1-123-319-00 | 47 | 16V | elect | |
| | | | | LEVEL B-Y | C3050 | 1-101-006-00 | 0.047 | | | |
| | | | | | C3051-3053 | 1-101-004-00 | 0.01 | | | |
| | | | | | C3054, 3055 | 1-123-320-00 | 100 | 16V | elect | |
| | | | | | C3056 | 1-123-316-00 | 10 | 16V | elect | |
| 3. BC BOAR | | | | | | | | | | |
| • | A-1135-082-A I | BC Board, con | nplete | E-253 | | | | | | |
| | CAPA | CITORS | | | | | | | | |
| C3001 | 1-123-316-00 | 10 | 16V | elect | | | lCs | | | |
| C3002 | 1-101-004-00 | 0.01 | | | IC2001 2004 | 9.750.240.52 | TOTAL | 200 | | |
| C3006 | 1-101-006-00 | 0.047 | | | IC3001-3004 | 8-759-240-53 | TC405 | | | |
| C3008 | 1-123-316-00 | 10 | 16V | elect | IC3005 | 8-759-900-00 | SN74L | | | |
| C3009, 3011 | 1-101-004-00 | 0.01 | | | | 8-759-900-26 | SN74L | | | |
| | | | | | | 8-759-901-23 8-759-900-26 | SN74L | | | |
| C3012, 3013- | 1-123-316-00 | 10 | 16V | elect | 103010,3011 | 0-739-900-20 | SN74L | 22014 | | |
| C3014, 3016, | | | | | IC3012 | 8-759-145-58 | μPC45: | 800 | | |
| | 1-101-004-00 | 0.01 | | | IC3012 | 8-759-901-23 | SN74L | | | |
| C3019 | 1-102-678-00 | 100p | | 5% | 103013 | 0-737-701-23 | DIA / TL | D12314 | | |
| C3020 | 1-102-888-00 | 150p | | 5% | | | | | | |
| C3021, 3022 | 1-102-687-00 | 100p | | 5% | | | | | | |
| C3023 | 1-102-888-00 | 150p | | 5% | | | | | | |
| C3024 | 1-102-824-00 | 470p | | 5% | | TRA | NSISTORS | | | |
| C3025-3029 | 1-101-004-00 | 0.01 | | | | | | | | |
| C3030 | 1-101-006-00 | 0.047 | | | ⇒ Q3001-3003 | 8-729-612-77 | 2SA10 | 27R | | |
| C3031 | 1-101-004-00 | 0.01 | | | ⇒ Q3007 | 8-729-612-77 | 2SA10 | 27R | | |
| | | | | | ⇒ Q3009-3017 | 8-729-612-77 | 2SA10 | | | |
| C3032 | 1-121-806-00 | 10 | 16V | elect (nonpolarized) | Q3018-3020 | 8-724-375-01 | 2SC403 | | | |
| C3033 | 1-101-004-00 | 0.01 | | | ⇒ Q3021 | 8-729-612-77 | 2SA10 | 27R | | |
| C3034 | 1-102-678-00 | 100p | | 5% | | | | | | |
| C3035 | 1-102-888-00 | 150p | | 5% | Q3022 | 8-722-384-01 | 2SK23 | A-840 | | |
| C3036, 3037 | 1-123-320-00 | 100 | 16V | elect | ⇒ Q3023 | 8-729-612-77 | 2SA10 | 27R | | |
| | | | | | Q3024 | 8-722-384-01 | 2SK23 | A-840 | | |
| C3038 | 1-101-006-00 | 0.047 | | | ⇒ Q3025-3030 | 8-729-612-77 | 2SA10 | 27R | | |
| C3039 | 1-123-320-00 | 100 | 16V | elect | Q3031 | 8-729-663-47 | 2SC13 | 64 | | |
| C3040 | 1-101-006-00 | 0.047 | | | | | | | | |
| C3041-3043 | 1-123-320-00 | 100 | 16V | elect | Q3032-3034 | 8-724-375-01 | 2SC40 | 3C | | |
| C3044 | 1-101-006-00 | 0.047 | | | ⇒ Q3035-3037 | 0.500 (40.55 | 2SA10 | 000 | | |

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | | Description | on Remark | Ref. No. | Part No. | | Descripti | on Remark |
|----------------|------------------------------|-------|-------------|----------------|-------------|--------------|--------|-----------|-----------------------------|
| | RESI | STORS | | | R3068 | 1-214-154-00 | 8.2k | 1/4W | 1% metal oxide |
| | | | | | R3069 | 1-214-153-00 | 7.5 | 1/4W | 1% metal oxide |
| R3001-3003 | 1-246-791-00 | 4.7k | | carbon | R3070 | 1-214-169-00 | 36k | 1/4W | 1% metal oxide |
| R3004 | 1-246-771-00 | 100 | | carbon | R3071 | 1-246-848-00 | 2.4k | | carbon |
| R3008 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide | R3072 | 1-246-791-00 | 4.7k | | carbon |
| R3009 | 1-246-787-00 | 2.2k | | carbon | | | | | |
| R3010 | 1-214-147-00 | 4.3k | 1/4W | 1% metal oxide | R3073 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide |
| | | | | | R3074 | 1-246-802-00 | 39k | | carbon |
| R3011 | 1-246-771-00 | 100 | | carbon | R3075 | 1-214-141-00 | 2.4k | 1/4W | 1% metal oxide |
| R3015 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide | R3076, 3077 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide |
| R3016 | 1-246-787-00 | 2.2k | | carbon | R3078 | 1-214-141-00 | 2.4k | 1/4W | 1% metal oxide |
| R3017 | 1-214-147-00 | 4.3k | 1/4W | 1% metal oxide | | | | | |
| R3018 | 1-246-771-00 | 100 | | carbon | R3079 | 1-214-116-00 | 220 | 1/4W | 1% metal oxide |
| | | | | | R3080-3082 | 1-246-795-00 | 10k | | carbon |
| R3022 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide | R3083 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide |
| R3023 | 1-246-787-00 | 2.2k | | carbon | R3084 | 1-246-791-00 | 4.7k | | carbon |
| R3024 | 1-214-147-00 | 4.3k | 1/4W | 1% metal oxide | R3085 | 1-246-848-00 | 2.4k | | carbon |
| R3025 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide | | | | | |
| R3026 | 1-214-096-00 | 33 | 1/4W | 1% metal oxide | R3086, 3087 | 1-246-791-00 | 4.7k | | carbon |
| | | | | | R3088 | 1-246-795-00 | 10k | | carbon |
| R3027 | 1-214-155-00 | 9.1k | 1/4W | 1% metal oxide | R3089 | 1-202-473-11 | 5.6M | 5% ¼W | composition |
| R3028 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide | R3090 | 1-214-160-00 | 15k | 1/4W | 1% metal oxide |
| R3029-3031 | 1-214-147-00 | 4.3k | 1/4W | 1% metal oxide | R3091 | 1-246-795-00 | 10k | | carbon |
| R3038-3040 | 1-246-791-00 | 4.7k | | carbon | | | | | |
| R3041 | 1-214-153-00 | 7.5k | 1/4W | 1% metal oxide | R3092 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide |
| | | | | | R3093 | 1-246-783-00 | 1k | | carbon |
| R3042 | 1-214-096-00 | 33 | 1/4W | 1% metal oxide | R3094 | 1-214-120-00 | 330 | 1/4W | 1% metal oxide |
| R3043 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | R3095 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide |
| R3044 | 1-246-795-00 | 10k | | carbon | R3096 | 1-246-795-00 | 10k | | carbon |
| R3045 | 1-246-791-00 | 4.7k | | carbon | | | | | |
| R3046 | 1-246-795-00 | 10k | | carbon | R3097 | 1-214-136-00 | 1.5k | 1/4 W | 1% metal oxide |
| | | | | | R3098, 3099 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide |
| R3047 | 1-246-791-00 | 4.7k | | carbon | R3100 | 1-246-796-00 | 12k | | carbon |
| R3048 | 1-246-795-00 | 10k | | carbon | R3101 | 1-246-795-00 | 10k | | carbon |
| R3049 | 1-246-791-00 | 4.7k | | carbon | R3102 | 1-214-108-00 | 100 | 1/4W | 1% metal oxide |
| | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide | | | | | |
| R3053 | 1-246-787-00 | 2.2k | | carbon | R3103 | 1-246-798-00 | 18k | | |
| | | | | | R3104 | 1-214-096-00 | 33 | 1/4W | 1% metal oxide |
| R3054 | 1-246-795-00 | 10k | | carbon | R3105 | 1-214-172-00 | 47K | 1/4W | 1% metal oxide |
| R3055 | 1-246-854-00 | 7.5k | | carbon | | | | | |
| R3056 | 1-246-791-00 | 4.7k | | carbon | RV3001 | 1-224-941-00 | Varial | ble, 20k | Y. SET UP LEVEI |
| | 1-246-848-00 | 2.4k | | carbon | RV3002 | 1-224-941-00 | Varial | ble, 20k | REG, SET UP |
| | 1-246-795-00 | 10k | | carbon | | | | | LEVEL |
| | | 2011 | | | RV3003 | 1-224-941-00 | Varial | ble, 20k | B.CL.P. WIDTH |
| R3063 | 1-214-153-00 | 7.5 | 1/4W | 1% metal oxide | RV3004 | 1-224-941-00 | Varial | ble, 20k | W.CL.P. WIDTH |
| R3064 | 1-214-169-00 | 36k | 1/4W | 1% metal oxide | RV3005 | 1-224-941-00 | | ble, 20k | CHROMA CLAMP |
| R3065 | 1-246-848-00 | 2.4k | | carbon | | | | | PULSE POSITION |
| | | 4.7k | | carbon | | | | | |
| R3066 R3067 | 1-246-791-00 1-214-136-00 | 1.5k | | 1% metal oxide | RV3006 | 1-224-941-00 | Varial | ble, 20k | CHROMA CLAMP PULSE WIDTH |
| | | | | | RV3007 | 1-224-934-00 | Varia | ole, 100 | AGC P LEVEL |

| Ref. No. | Part No. | <u></u> | Description | on Remark | Ref. No. | Part No. | | Description | on Remark |
|----------|------------------|------------|-------------|---------------|------------|--------------|----------------|-------------|---------------------|
| 4. BD B | OARD | | | | C4038 | 1-108-638-00 | 0.1 | 100V | 10% mylar |
| | | | | | C4039 | 1-101-004-00 | 0.01 | | |
| | • A-1135-083-A E | D Board, o | omplete | E-252 | C4040 | 1-123-316-00 | 10 | 16V | elect |
| | CAPA | CITORS | | | C4041 | 1-102-865-00 | 8p | | (0.5p) |
| | | | | | C4042 | 1-101-006-00 | 0.047 | | |
| C4001 | 1-102-865-00 | 8p | | (0.5p) | C4043 | I-108-638-00 | 0.1 | 100V | 10% mylar |
| C4002 | 1-123-316-00 | 10 | 16V | elect | C4044 | 1-101-006-00 | 0.047 | | |
| C4003 | 1-108-638-00 | 0.1 | 100V | 10% mylar | C4045 | 1-101-004-00 | 0.01 | | |
| C4004 | 1-101-006-00 | 0.047 | | | | | | | |
| C4005 | 1-101-004-00 | 0.01 | | | C4046-4048 | 1-121-257-00 | 4.7 | 16 | elect (nonpolarized |
| | | | | | C4049 | 1-102-865-00 | 8p | | (0.5p) |
| C4006 | 1-123-316-00 | 10 | 16V | elect | C4050 | 1-123-316-00 | 10 | 16V | |
| C4007 | 1-102-514-00 | 22p | | 0.5% | C4051 | 1-108-389-00 | 0.1 | 100V | 10% mylar |
| C4008 | 1-108-638-00 | 0.1 | 100V | 10% mylar | C4052 | 1-101-006-00 | 0.047 | | |
| C4009 | 1-101-004-00 | 0.01 | | | | | | | |
| C4010 | 1-123-316-00 | 10 | 16V | elect | C4053 | 1-101-004-00 | 0.01 | | |
| | | | | | C4054 | 1-121-257-00 | 4.7 | 16V | elect (nonpolarized |
| C4011 | 1-102-508-00 | 10p | | (0.5p) | C4055 | 1-108-634-00 | 0.047 | | 10% mylar |
| C4012 | 1-101-006-00 | 0.047 | | (F) | | 1-101-004-00 | 0.01 | 200. | 20/0 311 3 101 |
| C4013 | 1-108-638-00 | 0.1 | 100V | 10% mylar | C4058 | 1-108-626-00 | 0.01 | 100V | 10% mylar |
| C4014 | 1-101-006-00 | 0.047 | 100. | 10/0 1119 101 | | | 0.01 | 1001 | 10 /0 III J III |
| C4015 | 1-101-004-00 | 0.01 | | | C4059 | 1-101-006-00 | 0.047 | | |
| 0.010 | 1 101 00 1 00 | 0.01 | | | C4060 | 1-101-006-00 | 0.047 | | |
| C4016 | 1-102-865-00 | 8p | | (0.5p) | C4061 | 1-123-316-00 | 10 | 16V | elect |
| C4017 | 1-123-316-00 | 10 | 16V | | C4062 | 1-123-320-00 | 100 | 16V | elect |
| C4018 | 1-108-638-00 | 0.1 | | 10% mylar | C4063 | 1-101-006-00 | 0.047 | 10 1 | Oloce |
| C4019 | 1-101-006-00 | 0.047 | 1004 | 10% mylai | | 1 101 000 00 | 0.017 | | |
| C4020 | 1-101-004-00 | 0.047 | | | C4064 | 1-123-320-00 | 100 | 16V | elect |
| C4020 | 1-101-004-00 | 0.01 | | | C4065 | 1-101-006-00 | 0.047 | | |
| C4021 | 1-123-316-00 | 10 | 16V | alast | C4066-4070 | 1-123-319-00 | 47 | 16V | elect |
| C4021 | 1-102-514-00 | 22p | 10 v | 0.5% | C4071 | 1-101-006-00 | 0.047 | | |
| C4022 | 1-102-514-00 | - | 10037 | | C4072 | 1-123-319-00 | 47 | 16V | elect |
| C4023 | 1-101-004-00 | 0.1 | 1004 | 10% mylar | | | | | |
| C4024 | | | 1637 | -14 | C4073 | 1-101-006-00 | 0.047 | | |
| C4023 | 1-123-316-00 | 10 | 16V | elect | C4074 | 1-102-973-00 | 100p | | 5% |
| C4037 | 1 102 065 00 | 0 | | (0.5-) | C4075 | 1-101-004-00 | 0.01 | | |
| C4026 | 1-102-865-00 | 8p | | (0.5p) | C4076-4080 | 1-123-319-00 | 47 | 16V | elect |
| C4027 | 1-101-006-00 | 0.047 | 10057 | 100 | | | | | |
| C4028 | 1-108-638-00 | 0.1 | 100V | 10% mylar | | | | | |
| C4029 | 1-101-006-00 | 0.047 | | | | | | | |
| C4030 | 1-101-004-00 | 0.01 | | | | DI | ODES | | |
| C4031 | 1-102-865-00 | 8p | | (0.5p) | ⇒ D4001 | 8-719-931-05 | EQB0 | 1-05 | |
| C4032 | 1-123-316-00 | 10 | 16V | elect | D4002 | 8-719-815-55 | 1S155 | 5 | |
| C4033 | 1-108-638-00 | 0.1 | 100V | 10% mylar | ⇒ D4003 | 8-719-931-05 | EQB0 | 1-05 | |
| C4034 | 1-101-006-00 | 0.047 | | | D4004 | 8-719-815-55 | 1S155 | 5 | |
| C4035 | 1-101-004-00 | 0.01 | | | ⇒ D4005 | 8-719-931-05 | EQB01 | 1-05 | |
| C4036 | 1-123-316-00 | 10 | 16V | elect | D4006 | 8-719-815-55 | 1 S 155 | 5 | |
| C4037 | 1-102-514-00 | 22p | | 0.5% | D4007 | 8-719-815-55 | 1S155 | | |

Items marked "\delta" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Descript | ion Remark |
|--------------------------|------------------------------|----------------------|--------|----------------|------------------------------|------------------------------------|----------------|
| | | | | ⇒ Q4058 | 8-723-301-01 | 2SK43-11 | |
| | | ICs | | Q4059 | 8-724-375-01 | 2SC403C | |
| | | | | ⇒ Q4060 | 8-723-301-01 | 2SK43-11 | |
| IC4001 | 8-757-182-20 | CX718D | | ⇒ Q4061 | 8-729-612-77 | 2SA1027R | |
| IC4002 | 8-757-182-20 | CX718D | | Q4062 | 8-724-375-01 | 2SC403C | |
| IC4003 | 8-759-145-58 | μPC4558C | | | | | |
| | | | | ⇒ Q4063 | 8-723-301-01 | 2SK43-11 | |
| | CC | DILS | | ⇒ Q4064 | 8-729-612-77 | 2SA1027R | |
| L4001-4003 | 1-407-178-41 | 1.00μΗ 5% | | | | | |
| | TRAN | SISTORS | | | | | |
| 04001 4002 | 0 724 275 01 | 2504020 | | | RESI | STORS | |
| Q4001-4003 | | 2SC403C | | D 4001 | 1 246 222 00 | 220 | carbon |
| → Q4004 → Q4005,4006 | 8-723-301-01 8-729-612-77 | 2SK43-11 2SA1027R | | R4001 | 1-246-777-00 | 330 10k | carbon |
| Q4005,4006 Q4007,4008 | 8-729-375-01 | 2SC403C | | | 1-246-795-00 | 100 | carbon |
| Q4007,4008 > Q4009 | 8-723-301-01 | 2SK43-11 | | R4004 R4005 | 1-246-771-00 1-214-129-00 | 750 ¼W | 1% metal oxide |
| → Q4009 → Q4010 | 8-729-612-77 | 2SA1027R | | R4005 | 1-214-129-00 | 1.0k | carbon |
| Q4010 Q4011,4012 | 8-729-375-01 | 2SC403C | | N4000 | 1-2-0-703-00 | 1.0% | Caroon |
| Q 4 011,4012 | 0-727-373-01 | 2504050 | | R4007 | 1-246-792-00 | 5.6k | carbon |
| > Q4013 | 8-729-612-77 | 2SA1027R | | R4008 | 1-246-783-00 | 1.0k | carbon |
| Q4014-4016 | | 2SC403C | | R4009 | 1-246-771-00 | 100 | carbon |
| ⇒ Q4017 | 8-723-301-01 | 2SK43-11 | | R4010 | 1-202-473-11 | 5.6M 5% 1/4W | composition |
| ⇒ Q4018 | 8-729-612-77 | 2SA1027R | | R4011 | 1-246-795-00 | 10k | carbon |
| _ | 8-724-375-01 | 2SC403C | | | | | |
| → Q4022 | 8-723-301-01 | 2SK43-11 | | R4012 | 1-202-473-11 | 5.6M 5% 1/4W | composition |
| - | 8-729-612-77 | 2SA1027R | | R4013 | 1-214-126-00 | 560 ¼W | 1% metal oxide |
| | | | | R4014 | 1-214-146-00 | 3.9k ¹ / ₄ W | 1% metal oxide |
| Q4025,4026 | 8-724-375-01 | 2SC403C | | R4015 | 1-214-155-00 | 9.1k ½W | 1% metal oxide |
| ⇒ Q4027 | 8-723-301-01 | 2SK43-11 | | R4016 | 1-214-132-00 | 1k ½W | 1% metal oxide |
| ⇒ Q4028 | 8-729-612-77 | 2SA1027R | | | | | |
| Q4029,4030 | 8-724-375-01 | 2SC403C | | R4017 | 1-246-771-00 | 100 | carbon |
| ⇒ Q4031 | 8-729-612-77 | 2SA1027R | | R4018 | 1-214-144-00 | 3.3k ¼W | 1% metal oxide |
| Q4032-4034 | 8-724-375-01 | 2SC403C | | R4019 | 1-246-797-00 | 15k | carbon |
| ⇒ Q4035 | 8-723-301-01 | 2SK43-11 | | R4020 | 1-214-136-00 | 1.5k ½W | 1% metal oxide |
| | | | | R4021 | 1-214-145-00 | 3.6k ¼W | 1% metal oxide |
| ⇒ Q4036 | 8-729-612-77 | 2SA1027R | | | | | |
| Q4037-4039 | 8-724-375-01 | 2SC403C | | R4022 | 1-214-144-00 | 3.3k ¹ / ₄ W | 1% metal oxide |
| ⇒ Q4040 | 8-723-301-01 | 2SK43-11 | | R4023 | 1-246-771-00 | 100 | carbon |
| ⇒ Q4041,4042 | | 2SA1027R | | R4024 | 1-246-795-00 | 10k | carbon |
| | 8-724-375-01 | 2SC403C | | R4025 | 1-202-473-11 | 5.6M 5% ¼W | composition |
| ⇒ Q4045 | 8-723-301-01 | 2SK43-11 | | R4026 | 1-246-795-00 | 10k | carbon |
| ⇒ Q4046 | 8-729-612-77 | 2SA1027R | | D 4000 | 101110100 | 1.01 | 101 1 |
| | | | | R4027 | 1-214-134-00 | 1.2k ¼W | 1% metal oxide |
| | 8-724-375-01 | 2SC403C | | R4029 | 1-214-162-00 | 18k ¼W | 1% metal oxide |
| ⇒ Q4049 | 8-729-612-77 | 2SA1027R | | R4030 | 1-246-791-00 | 100 | carbon |
| | 8-724-375-01 | 2SC403C | | R4031 | 1-209-773-00 | 4.7k | carbon |
| ⇒ Q4053 | 8-723-301-01 | 2SK43-11 | | R4032 | 1-246-771-00 | 100 | carbon |
| ⇒ Q4054 | 8-729-612-77 | 2SA1027R | | | | | |
| 04055-4057 | 8-724-375-01 | 2SC403C | | | | | |

| Ref. No. | Part No. | | Description | on Ren | mark | Ref. No. | Part No. | | Descripti | on Remark |
|-------------|--------------|-------|-------------|-----------|-------|----------------|------------------------------|-------|-----------|----------------|
| R4033 | 1-246-795-00 | 10k | | carbon | | R4079 | 1-214-123-00 | 430 | 1/4W | 1% metal oxide |
| R4034 | 1-246-771-00 | 100 | | carbon | | R4080 | 1-246-783-00 | 1.0k | /4 W | carbon |
| R4035 | 1-214-123-00 | 430 | 1/4W | 1% metal | | R4081 | 1-246-792-00 | 5.6k | | carbon |
| R4036 | 1-246-783-00 | 1.0k | | carbon | | R4082 | 1-246-783-00 | 1.0k | | carbon |
| R4037 | 1-246-792-00 | 5.6k | | carbon | | R4083 | 1-246-771-00 | 100 | | carbon |
| 5.4040 | . 046 700 00 | | | | | | | | | |
| R4038 | 1-246-783-00 | 1.0k | | carbon | | R4084 | 1-202-473-11 | | 5% ¼W | composition |
| R4039 | 1-246-771-00 | 100 | # Of 1/11 | carbon | | R4085 | 1-246-795-00 | 10k | | carbon |
| R4040 | 1-202-473-11 | | 5% ¼W | compositi | | R4086 | 1-202-473-11 | | 5% ¼W | composition |
| R4041 | 1-246-795-00 | 10k | 601 1/111 | carbon | | R4087 | 1-214-124-00 | 470 | 1/4W | 1% metal oxide |
| R4042 | 1-202-473-11 | 5.6M | 5% 1/4W | compositi | ion | R4088 | 1-214-136-00 | 1.5k | 1/4 W | 1% metal oxide |
| R4043 | 1-214-124-00 | 470 | 1/4W | 1% metal | oxide | R4089 | 1-246-777-00 | 330 | | carbon |
| R4044 | 1-214-136-00 | 1.5k | 1/4 W | 1% metal | oxide | R4090, 4091 | 1-246-795-00 | 10k | | carbon |
| R4045 | 1-246-777-00 | 330 | | carbon | | R4092 | 1-246-771-00 | 100 | | carbon |
| R4046, 4047 | 1-246-795-00 | 10k | | carbon | | R4093 | 1-214-129-00 | 750 | 1/4W | 1% metal oxide |
| R4048 | 1-246-771-00 | 100 | | carbon | | R4094 | 1-246-783-00 | 1.0k | | carbon |
| R4049 | 1-214-129-00 | 750 | 1/4W | 1% metal | ovide | R4095 | 1 246 702 00 | 6 (1- | | |
| R4050 | 1-246-783-00 | 1.0k | 74 *** | carbon | | R4096 | 1-246-792-00 | 5.6k | | carbon |
| R4051 | 1-246-792-00 | 5.6k | | carbon | | | 1-246-783-00 | 1.0k | | carbon |
| R4052 | 1-246-783-00 | 1.0k | | carbon | | R4097 | 1-246-771-00 | 100 | FO 1/31 | carbon |
| R4053 | 1-246-771-00 | 100 | | carbon | | R4098 R4099 | 1-202-473-11 1-246-795-00 | | 5% ¼W | composition |
| | | | | | | K4099 | 1-240-793-00 | 10k | | carbon |
| R4054 | 1-202-473-11 | | 5% ¼W | compositi | ion | R4100 | 1-202-473-11 | 5.6M | 5% ¼W | composition |
| R4055 | 1-246-795-00 | 10k | EO(1/31) | carbon | | R4101 | 1-214-126-00 | 560 | 1/4 W | 1% metal oxide |
| R4056 | 1-202-473-11 | | 5% ¼W | compositi | | R4102 | 1-214-146-00 | 3.9k | 1/4 W | 1% metal oxide |
| R4057 | 1-214-126-00 | 560 | 1/4W | 1% metal | | R4103 | 1-214-155-00 | 9.1k | 1/4 W | 1% metal oxide |
| R4058 | 1-214-151-00 | 6.2k | 1/4W | 1% metal | oxide | R4104 | 1-214-132-00 | 1k | 1/4W | 1% metal oxide |
| R4059 | 1-214-155-00 | 9.1k | 1/4W | 1% metal | oxide | R4105 | 1-246-771-00 | 100 | | carbon |
| R4060 | 1-214-132-00 | lk | 1/4 W | 1% metal | ovide | R4106 | 1-214-144-00 | 3.3k | 1/4W | 1% metal oxide |
| R4061 | 1-246-771-00 | 100 | | carbon | | R4107 | 1-246-797-00 | 15k | 7-0 TT | carbon |
| R4062 | 1-214-144-00 | 3.3k | 1/4W | 1% metal | avida | R4108 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide |
| R4063 | 1-246-797-00 | 15k | | carbon | | R4109 | 1-214-145-00 | 3.6k | 1/4W | 1% metal oxide |
| R4064 | 1-214-136-00 | 1.5 k | 1/4W | 1% metal | ovida | | | | | |
| R4065 | 1-214-145-00 | 3.6k | 1/4W | 1% metal | avida | R4110 | 1-214-144-00 | 3.3k | 1/4W | 1% metal oxide |
| R4066 | 1-214-144-00 | 3.3k | 1/4W | 1% metal | avida | R4111 | 1-246-771-00 | 100 | | carbon |
| R4067 | 1-246-771-00 | 100 | 74 99 | carbon | | R4112 | 1-246-795-00 | 10k | | carbon |
| R4068 | 1-246-795-00 | 10k | | carbon | | R4113 | 1-202-473-11 | | 5% 1/4W | composition |
| 114000 | 1-240-775-00 | IUK | | carbon | | R4114 | 1-246-795-00 | 10k | | carbon |
| R4069 | 1-202-473-11 | 5.6M | 5% 1/4W | compositi | on | R4115 | 1-214-134-00 | 1.2k | 1/4W | 1% metal oxide |
| R4070 | 1-246-795-00 | 10k | | carbon | | R4117 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide |
| R4071 | 1-214-134-00 | 1.2k | 1/4W | 1% metal | ovido | R4118 | 1-246-771-00 | 100 | | carbon |
| R4072 | 1-214-128-00 | 680 | 1/4 W | 1% metal | ovida | R4119 | 1-246-791-00 | 4.7k | | carbon |
| R4073 | 1-214-162-00 | 18k | 1/4W | 1% metal | ovida | R4120 | 1-246-771-00 | 100 | | carbon |
| R4074 | 1-246-771-00 | 100 | | carbon | | | | | | |
| R4075 | 1-246-791-00 | 4.7k | | carbon | | R4121 | 1-246-795-00 | 10k | | carbon |
| R4076 | 1-246-771-00 | 100 | | carbon | | R4122 | 1-246-771-00 | 100 | | carbon |
| R4077 | 1-246-795-00 | 10k | | carbon | | R4123 | 1-214-123-00 | 430 | 1/4 W | 1% metal oxide |
| R4078 | 1-246-771-00 | 100 | | carbon | | R4124 | 1-246-783-00 | 1.0k | | carbon |
| | / / 1 -00 | 100 | | Caroon | | R4125 | 1-246-792-00 | 5.6k | | carbon |

| Ref. No. | Part No. | | Descripti | ion Remark | Ref. No. | Part No. | | Descrip | tion Remark |
|-------------|----------------|-------|-----------|----------------|-------------|--------------|-----------|----------|---------------|
| R4126 | 1-246-783-00 | 1.0k | | carbon | 5. BE BOAR | 57 | | | |
| R4127 | 1-246-771-00 | 100 | | carbon | | A-1135-084-A | RE Roard | complete | E-251 |
| R4128 | 1-202-473-11 | 5.6M | 5% 1/4W | composition | | A-1133-004-A | DE Board, | complete | E-231 |
| R4129 | 1-246-795-00 | 10k | | carbon | | | | | |
| R4130 | 1-202-473-11 | 5.6M | 5% ¼W | composition | | | | | |
| | | | | • | | CAR | ACITORS | | |
| R4131 | 1-214-124-00 | 470 | 1/4W | 1% metal oxide | | CAF | ACITONS | | |
| R4132 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide | C5002 | 1-123-316-00 | 10 | 16V | elect |
| R4133 | 1-246-777-00 | 330 | | carbon | C5002 | 1-101-006-00 | 0.047 | 10 4 | CICCI |
| R4134, 4135 | 1-246-795-00 | 10k | | carbon | C5004 | 1-101-332-00 | 47 | 25V | elect |
| R4136 | 1-246-771-00 | 100 | | carbon | C5005 | 1-108-638-00 | 0.1 | | 10% mylar |
| | | | | | C5006 | 1-123-352-00 | 1 | 50V | elect |
| R4137 | 1-214-132-00 | 1k | 1/4 W | 1% metal oxide | C3000 | 1-125-552-00 | 1 | 30 V | CICCI |
| R4138 | 1-246-783-00 | 1.0k | | carbon | C5007 | 1-101-004-00 | 0.01 | | |
| R4139 | 1-246-792-00 | 5.6k | | carbon | C5007 | 1-108-638-00 | 0.1 | 100V | 10% mylar |
| R4140 | 1-246-783-00 | 1.0k | | carbon | C5009 | 1-101-004-00 | 0.01 | 1004 | 10/0 1119141 |
| R4141 | 1-246-771-00 | 100 | | carbon | C5009 | 1-107-045-00 | 3.9p | 500V | 1% mica |
| | | | | | C5010 | 1-101-004-00 | 0.01 | 300 V | 1/0 ******** |
| R4142 | 1-202-473-11 | 5.6M | 5% ¼W | composition | C3011 | 1-101-004-00 | 0.01 | | |
| R4143 | 1-246-795-00 | 10k | | carbon | C5012 | 1-108-634-00 | 0.047 | 100V | 10% mylar |
| R4144 | 1-202-473-11 | 5.6M | 5% ¼W | composition | C5012 | 1-101-004-00 | 0.047 | 1004 | 10/0 1119 141 |
| R4145 | 1-214-132-00 | 1k | 1/4W | 1% metal oxide | C5015, 5014 | 1-108-634-00 | 0.047 | 100V | 10% mylar |
| R4146 | 1-246-791-00 | 4.7k | | carbon | C5016, 5018 | 1-101-004-00 | 0.047 | 100 4 | 10/0 mytai |
| | | | | | C5021 | 1-123-316-00 | 10 | 16V | elect |
| R4147 | 1-246-771-00 | 100 | | carbon | C3021 | 1-125-510-00 | 10 | 10 4 | Cicci |
| R4148 | 1-246-795-00 | 10k | | carbon | C5022 | 1-101-006-00 | 0.047 | | |
| R4149 | 1-202-473-11 | 5.6M | 5% ¼W | composition | C5023 | 1-123-332-00 | 47 | 25V | elect |
| R4150, 4151 | 1-246-799-00 | 22k | | carbon | C5024 | 1-108-638-00 | 0.1 | | 10% mylar |
| R4152 | 1-246-795-00 | 10k | | carbon | C5025 | 1-123-352-00 | 1 | 50V | elect |
| | | | | | C5026 | 1-101-004-00 | 0.01 | | |
| R4153 | 1-202-473-11 | 5.6M | 5% 1/4W | composition | 00020 | 110100100 | 0.01 | | |
| R4154 | 1-246-796-00 | 12k | | carbon | C5027 | 1-108-638-00 | 0.1 | 100V | 10% mylar |
| R4155 | 1-214-157-00 | 11k | 1/4W | 1% metal oxide | C5028 | 1-101-004-00 | 0.01 | | |
| R4156 | 1-214-179-00 | 91k | 1/4W | 1% metal oxide | C5029 | 1-107-045-00 | 3.9p | 500V | 1% mica |
| R4157, 4158 | 3 1-246-795-00 | 10k | | carbon | C5030 | 1-101-004-00 | 0.01 | | |
| | | | | | C5031 | 1-108-634-00 | 0.047 | 100V | 10% mylar |
| R4159 | 1-246-783-00 | 1.0k | | carbon | | | | | • |
| R4160 | 1-246-793-00 | 6.8k | | carbon | C5032, 5033 | 1-101-004-00 | 0.01 | | |
| R4161 | 1-246-790-00 | 3.9k | | carbon | C5034 | 1-108-634-00 | 0.047 | 100V | 10% mylar |
| R4162 | 1-246-795-00 | 10k | | carbon | | 1-101-004-00 | 0.01 | | |
| R4163-416 | 5 1-246-780-00 | 560 | | carbon | C5040 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C5041 | 1-101-006-00 | 0.047 | 20, | |
| R4166-416 | 8 1-246-771-00 | 100 | | carbon | | | 3.0.7 | | |
| R4169 | 1-246-795-00 | 10k | | carbon | C5042 | 1-123-332-00 | 47 | 25V | elect |
| R4170 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide | C5043 | 1-108-638-00 | 0.1 | | 10% mylar |
| | | | | | C5044 | 1-123-352-00 | 1 | 50V | - |
| RV4001 | 1-224-939-00 | Varia | ble, 5k | R.BRT.P. LEVEL | C5045 | 1-101-004-00 | 0.01 | | |
| RV4002 | 1-224-939-00 | | ble, 5k | B.BRT. P LEVEL | C5046 | 1-108-638-00 | 0.1 | 100V | 10% mylar |
| RV4003 | 1-224-938-00 | Varia | ble, 2k | R. PEAK LIMIT | | | 4.4 | | |
| RV4004 | 1-224-938-00 | Varia | ble, 2k | B.BRT, P LEVEL | | | | | |

Items marked "">" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | <u>D</u> | escripti | on Remark | 1 | Ref. No. | Part No. | Description | Remark |
|-------------|----------------|----------|----------|-----------|---|--------------|--------------|-------------|--------|
| C5047 | 1-101-004-00 | 0.01 | | | | | | | |
| C5048 | 1-107-045-00 | 3.9p | 500V | 1% mica | | | TRAN | SISTORS | |
| C5049 | 1-101-004-00 | 0.01 | | | | 05001 | 0.700.610.77 | 2511225 | |
| C5050 | 1-108-634-00 | 0.047 | 100V | 10% mylar | - | ⇒ Q5001 | 8-729-612-77 | 2SA1027R | |
| C5051, 5052 | 1-101-004-00 | 0.01 | | | | Q5002 | 8-724-375-01 | 2SC403C | |
| | | | | | - | ⇒ Q5003,5004 | 8-729-612-77 | 2SA1027R | |
| C5053 | 1-108-634-00 | 0.047 | 100V | 10% mylar | | Q5005 | 8-765-300-00 | 2SC2009 | |
| C5054, 5056 | 1-101-004-00 | 0.01 | | | | Q5006 | 8-729-322-78 | 2SC2278 | |
| C5058-5061 | 1-123-320-00 | 100 | 16V | elect | | 05007 | 0.000.044.04 | | |
| C5062-5067 | 1-123-319-00 | 47 | 16V | elect | = | > Q5007 | 8-729-366-81 | 2SD668 | |
| C5068 | 1-123-384-00 | 10 | 100V | elect | | Q5008 | 8-729-989-93 | 2SA899 | |
| | | | | | = | > Q5009 | 8-723-301-01 | 2SK43-11 | |
| C5069 | 1-123-344-00 | 47 | 35V | elect | | Q5010 | 8-761-622-00 | 2SC1636 | |
| C5070-5075 | 1-101-006-00 | 0.047 | | | = | > Q5011,5013 | 8-723-301-01 | 2SK43-11 | |
| C5076, 5077 | 1-123-320-00 | 100 | 16V | elect | | 0.004.4 | | | |
| C5078-5080 | 1-123-319-00 | 47 | 16V | elect | = | ⇒ Q5014 | 8-729-612-77 | 2SA1027R | |
| C5081, 5082 | 1-123-344-00 | 47 | 35V | elect | | Q5015 | 8-724-375-01 | 2SC403C | |
| | | | | | = | > Q5016,5017 | 8-729-612-77 | 2SA1027R | |
| C5083, 5084 | 1-123-384-00 | 10 | 100V | elect | | Q5018 | 8-765-300-00 | 2SC2009 | |
| | | | | | | Q5019 | 8-729-322-78 | 2SC2278 | |
| CV5001 | 1-141-147-XX | Trimer, | 15p | R FREQ | | 05000 | 0.500.000.00 | | |
| CV5002 | 1-141-147-XX | Trimer, | 15p | G FREQ | = | > Q5020 | 8-729-366-81 | 2SD668 | |
| CV5003 | 1-141-147-XX | Trimer, | 15p | B FREQ | | Q5021 | 8-729-989-93 | 2SA899 | |
| | | | | | = | > Q5022 | 8-723-301-01 | 2SK43-11 | |
| | | | | | | Q5023 | 8-761-622-00 | 2SC1636 | |
| | | | | | - | > Q5024,5026 | 8-723-301-01 | 2SK43-11 | |
| | DI | ODES | | | = | > Q5027 | 8-729-612-77 | 2SA1027R | |
| | 0, | 0020 | | | | Q5028 | 8-724-375-01 | 2SC403C | |
| ⇒ D5001 | 8-719-931-05 | EQB01- | 0.5 | | ⇒ | Q5029,5030 | 8-729-612-77 | 2SA1027R | |
| ⇒ D5002 | 8-719-931-06 | EQB01- | | | | Q5031 | 8-765-300-00 | 2SC2009 | |
| | 5 8-719-815-55 | 1S1555 | 00 | | | Q5032 | 8-729-322-78 | 2SC2278 | |
| D5006 | 8-719-200-02 | 10E2 | | | | | | | |
| ⇒ D5007 | 8-719-931-05 | EQB01- | ns. | | = | > Q5033 | 8-729-366-81 | 2SD668 | |
| . 20007 | 0 /17 /31 03 | LQD01- | 05 | | | Q5034 | 8-729-989-93 | 2SA899 | |
| ⇒ D5008 | 8-719-931-06 | EQB01- | 06 | | = | Q5035 | 8-723-301-01 | 2SK43-11 | |
| | 1 8-719-815-55 | 1S1555 | | | | Q5036 | 8-761-622-00 | 2SC1636 | |
| D5012 | 8-719-200-02 | 10E2 | | | = | Q5037,5039 | | 2SK43-11 | |
| ⇒ D5012 | 8-719-931-05 | EQB01- | ns. | | | 20001,0000 | 0 /23 301 01 | 25K+3·11 | |
| ⇒ D5014 | 8-719-931-06 | EQB01- | | | | | | | |
| | | _ (=01 | | | | | | | |
| D5015-501 | 7 8-719-815-55 | 1S1555 | | | | | | | |
| D5018 | 8-719-200-02 | 10E2 | | | | | | | |
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| | | ICs | | | | | | | |
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IC5001-5003 8-759-145-58

μPC4558C

| Ref. No. | Part No. | | Descrip | tion | Remark | Ref. No. | Part No. | | Description | on Remark |
|-------------|--------------|-------|-------------------|----------|-------------------------|-------------|---------------|--------|-------------|-------------------------------|
| | RESI | STORS | | | | R5044 | 1-246-771-00 | 100 | | carbon |
| | | | | | | R5045 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide |
| R5001 | 1-246-771-00 | 100 | | carbo | n | R5046 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide |
| R5002 | 1-214-128-00 | 680 | 1/4W | | etal oxide | R5047 | 1-246-776-00 | 270 | , , , , , | carbon |
| R5003 | 1-214-138-00 | 1.8k | 1/4W | | etal oxide | R5048 | 1-246-788-00 | 2.7k | | carbon |
| R5004 | 1-246-776-00 | 270 | ,411 | carbo | | 10010 | 1 = 10 .00 00 | 2011 | | 04.0 0. |
| R5005 | 1-246-788-00 | 2.7k | | carbo | | R5049 | 1-246-771-00 | 100 | | carbon |
| **** | 1210 700 00 | 21710 | | caroo | ** | R5050 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide |
| R5006 | 1-246-771-00 | 100 | | carbo | n | R5051 | 1-214-150-00 | 5.6k | 1/4W | 1% metal oxide |
| R5007 | 1-214-136-00 | 1.5k | 1/4W | | etal oxide | R5052 | 1-246-793-00 | 6.8k | | carbon |
| R5008 | 1-214-150-00 | 5.6k | 1/4W | | etal oxide | R5053 | 1-246-797-00 | 15k | | carbon |
| R5009 | 1-246-793-00 | 6.8k | 74 44 | carbo | | 10000 | 1240 /) / 00 | 1516 | | 0110011 |
| R5010 | 1-246-797-00 | 15k | | carbo | | R5054 | 1-246-771-00 | 100 | | carbon |
| 10010 | 1-240-777-00 | 151 | | caroo | t t | R5055 | 1-246-796-00 | 12k | | carbon |
| R5011 | 1-246-771-00 | 100 | | carbo | n | R5056 | 1-246-771-00 | 100 | | carbon |
| R5011 | 1-246-796-00 | 12k | | carbo | | R5057 | 1-206-737-00 | 3.3k | 3W | metal oxide |
| R5012 | 1-246-771-00 | 100 | | carbo | | R5058 | 1-214-142-00 | 2.7k | 1/4W | (nonflammable) 1% metal oxide |
| R5013 | 1-206-737-00 | 3.3k | 3W | metal | oxide | K3036 | 1-214-142-00 | 2. / K | 74 ** | 170 Metal Oxide |
| R5014 | 1-214-142-00 | 2.7k | 1/4W | | lammable) etal oxide | R5059, 5060 | 1-214-116-00 | 220 | 1/4W | 1% metal oxide |
| K5015 | 1-214-142-00 | 2./K | 74 WW | 1 /0 111 | etai oxide | R5061, 5062 | 1-246-759-00 | 10 | 74 11 | carbon |
| R5016, 5017 | 1-214-116-00 | 220 | 1/4W | 10/ | etal oxide | R5063 | 1-212-692-00 | 39k | 1/2W | 1% metal oxide (?) |
| R5018, 5017 | | 10 | 74 W | carbo | | R5064 | 1-214-180-00 | 100k | ½W | 1% metal oxide |
| R5020 | 1-212-692-00 | 39k | ½W | | etal oxide | R5065 | 1-214-151-00 | 6.2k | 1/4W | 1% metal oxide |
| R5021 | 1-214-180-00 | 100k | 1/4W | | etal oxide | K3003 | 1-214-131-00 | U.2K | /4 ¥¥ | 1 /6 Illetal Oxide |
| R5021 | | 6.2k | 1/4W | | etal oxide | R5066 | 1-246-795-00 | 10k | | carbon |
| K3022 | 1-214-151-00 | 0.2K | 74 W | 170 111 | etai oxide | | 1-202-473-11 | | 5% 1/4W | composition |
| R5023 | 1 246 705 00 | 1.01. | | | | R5067 | 1-246-790-00 | 3.9k | 3 /0 74 44 | carbon |
| R5024 | 1-246-795-00 | 10k | 5% 1/4W | carbo | | R5068 | | 82k | 1/4 W | 1% metal oxide |
| | 1-202-473-11 | | 370 74 W | | osition | R5069 | 1-214-178-00 | 62k | 1/4W | 1% metal oxide |
| R5025 | 1-246-790-00 | 3.9k | 1/357 | carbo | | R5070 | 1-214-175-00 | 02K | 74 W | 1% metal oxide |
| R5026 | 1-214-178-00 | 82k | 1/4W | | etal oxide | | | | | |
| R5027 | 1-214-175-00 | 62k | 1/4W | 1% m | etal oxide | R5071 | 1-214-173-00 | 51k | 1/4W | 1% metal oxide |
| D. 5.0.0.0 | | | | | | R5072 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide |
| R5028 | 1-214-173-00 | 51k | 1/4W | | etal oxide | R5073 | 1-246-795-00 | 10k | | carbon |
| R5029 | 1-214-162-00 | 18k | 1/4W | | etal oxide | R5074 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide |
| R5030 | 1-246-795-00 | 10k | | carbo | | R5075 | 1-214-151-00 | 6.2k | 1/4 W | 1% metal oxide |
| R5031 | 1-214-180-00 | 100k | | | etal oxide | | | | | |
| R5032 | 1-214-151-00 | 6.2k | 1/4W | 1% m | etal oxide | R5076, 5077 | 1-246-795-00 | 10k | | carbon |
| | | | | | | R5078 | 1-202-473-11 | 5.6M | 5% ¼W | composition |
| | 1-246-795-00 | 10k | | carbo | | R5079 | 1-214-172-00 | 47k | 1/4W | 1% metal oxide |
| R5035 | 1-202-473-00 | 5.6M | 1/4W | | osition | R5080 | 1-246-795-00 | 10k | | carbon |
| R5036 | 1-214-170-00 | 39k | 1/4W | | etal oxide | R5081 | 1-202-473-11 | 5.6M | 5% 1/4W | composition |
| R5037 | 1-246-795-00 | 10k | | carbo | n | | | | | |
| R5038 | 1-202-473-11 | 5.6M | 5% ¼W | comp | osition | R5082 | 1-246-795-00 | 10k | | carbon |
| | | | | | | R5083 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide |
| R5039 | 1-246-795-00 | 10k | | carbo | n | R5084 | 1-214-179-00 | 91k | 1/4W | 1% metal oxide |
| R5040 | 1-214-162-00 | 18k | 1/4W | 1% m | etal oxide | R5085 | 1-214-149-00 | 5.1k | 1/4W | 1% metal oxide |
| R5041 | 1-214-179-00 | 91k | 1/ ₃ W | 1% m | etal oxide | R5086 | 1-246-795-00 | 10k | | carbon |
| R5042 | 1-214-149-00 | 5.1k | 1/4W | 1% m | etal oxide | | | | | |
| R5043 | 1-246-795-00 | 10k | | carbo | n | R5087 | 1-246-771-00 | 100 | | carbon |
| | | | | | | R5088 | 1-214-128-00 | 680 | 1/4W | 1% metal oxide |
| | | | | | | R5089 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide |
| | | | | | | R5090 | 1-246-776-00 | 270 | | carbon |
| | | | | | | R5091 | 1-246-788-00 | 2.7k | | carbon |

| Ref. No. | Part No. | 1 | Descriptio | on Remark | | |
|------------------|--------------|--------------------|------------|----------------------------|--|--|
| R5092 | 1-246-771-00 | 100 | | carbon | | |
| R5093 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide | | |
| R5094 | 1-214-150-00 | 5.6k | 1/4W | 1% metal oxide | | |
| R5095 | 1-246-793-00 | 6.8k | 7411 | carbon | | |
| R5096 | 1-246-797-00 | 15k | | carbon | | |
| | | 2000 | | | | |
| R5097 | 1-246-771-00 | 100 | | carbon | | |
| R5098 | 1-246-796-00 | 12k | | carbon | | |
| R5099 | 1-246-771-00 | 100 | | carbon | | |
| R5100 | 1-206-737-00 | 3.3k | 3W | metal oxide (nonflammable) | | |
| R5101 | 1-214-142-00 | 2.7 | 1/4W | 1% metal oxide | | |
| R5102, 5103 | 1-214-116-00 | 220 | 1/4W | 1% metal oxide | | |
| R5102, 5105 | 1-246-759-00 | 10 | 74 11 | carbon | | |
| R5104, 5105 | 1-212-692-00 | 39k | ½W | 1% metal oxide | | |
| R5106 | | 100k | | 1% metal oxide | | |
| | 1-214-180-00 | | 1/4W | 1% metal oxide | | |
| R5108 | 1-214-131-00 | 6.2k | 1/4W | 170 metai oxide | | |
| R5109 | 1-246-795-00 | 10k | | carbon | | |
| R5110 | 1-202-473-11 | 5.6M | 5% ¼W | composition | | |
| R5111 | 1-246-790-00 | 3.9k | | carbon | | |
| R5112 | 1-214-178-00 | 82k | 1/4W | 1% metal oxide | | |
| R5113 | 1-214-175-00 | 62k | 1/4W | 1% metal oxide | | |
| R5114 | 1-214-173-00 | 51k | 1/4W | 1% metal oxide | | |
| R5115 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | | |
| R5116 | 1-246-795-00 | 10k | | carbon | | |
| R5117 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide | | |
| R5118 | 1-214-151-00 | 6.2k | 1/4W | 1% metal oxide | | |
| | | | | | | |
| R5119, 5120 | 1-246-795-00 | 10k | | carbon | | |
| R5121 | 1-202-473-11 | 5.6M | 5% ¼W | composition | | |
| R5122 | 1-214-174-00 | 56k | 1/4W | 1% metal oxide | | |
| R5123 | 1-246-795-00 | 10k | | carbon | | |
| R5124 | 1-202-473-11 | 5.6M 5 | 5% ¼W | composition | | |
| R5125 | 1-246-795-00 | 10k | | carbon | | |
| R5126 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | | |
| R5127 | 1-214-179-00 | 91k | | 1% metal oxide | | |
| R5128 | 1-214-149-00 | 5.1k | | 1% metal oxide | | |
| R5129 | 1-246-795-00 | 10k | | carbon | | |
| | | | | | | |
| RV5001 | 1-226-698-00 | Variabl | | R. BKG | | |
| | 1-224-941-00 | Variabl | le 20k | R. DRIVE | | |
| RV5002 | 1 226 600 00 | Variabl | le 10k | G. BKG | | |
| RV5002 RV5003 | 1-226-698-00 | | | | | |
| RV5003 RV5004 | 1-224-941-00 | Variabl | le 20k | G. DRIVE | | |
| RV5003 | | Variabl Variabl | | G. DRIVE B. BKG | | |

| Ref. No. | Part No. | Ē | escript | ion Remark |
|------------|--------------|---------|----------|-----------------|
| 6. C BOARD | | | | |
| • | 1-600-366-00 | C BOAR | D | E-52 |
| | CAPA | CITOR | | |
| C701 | 1-129-953-00 | 0.068M | 1.5K | V polypropylene |
| | | | | |
| | RESI | STORS | | |
| R701 | 1-202-838-00 | 100k | 1/2W | composition |
| R702, 703 | 1-202-818-00 | 1k | ½W | composition |
| R704, | 1-202-838-00 | 100k | ½W | composition |
| R705, 706 | 1-202-818-00 | 1k | ½W | composition |
| | | | | |
| | MISCEL | LANEOUS | | |
| SG701-706 | 1-519-063-XX | Spark (| Gap | |
| | 1-526-086-XX | Socket | , pictur | e tube |
| | | | | |
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Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | $\frac{D}{c}$ | escripti | on Remark | Ref. No. | Part No. | De | scripti | on Remark |
|------------|--------------|---------------|----------|----------------------|-------------|--------------|---------|---------|----------------------|
| 7. DA BOAR | RD | | | | C6062 | 1-123-319-00 | 47 | 16V | elect |
| 4 | A-1345-242-A | DA Board, | complet | ed E-203 | C6063 | 1-108-636-00 | 0.068 | 100V | 10% mylar |
| | CAPA | CITORS | | | C6064 | 1-121-806-00 | 10 | 16V | elect (nonpolarized) |
| | | | | | C6065, 6066 | 1-102-848-00 | 180p | | 5% |
| | 1-101-004-00 | 0.01 | | | | 1-123-319-00 | 47 | 16V | elect |
| C6013 | 1-123-316-00 | 10 | 16V | | C6069 | 1-102-973-00 | 100p | | 5% |
| C6014 | 1-108-642-00 | 0.22 | | 10% mylar | C6070 | 1-101-004-00 | 0.01 | | |
| C6015 | 1-108-632-00 | 0.033 | | 10% mylar | | | | | |
| C6016-6018 | 1-108-634-00 | 0.047 | 100V | 10% mylar | C6071 | 1-130-072-00 | 0.022 | 100V | 2% polypropylene |
| C6019 | 1-121-806-00 | 10 | 16V | elect (nonpolarized) | | | | | |
| C6020 | 1-123-328-00 | 4.7 | 25V | elect | | DI | ODES | | |
| C6021 | 1-130-270-00 | 0.1 | 100V | 5% Film | D6001 | 8-719-815-55 | 1S1555 | | |
| C6022 | 1-121-806-00 | 10 | 16V | elect (nonpolarized) | D6002 | 8-719-815-55 | 1S1555 | | |
| C6023 | 1-123-351-00 | 0.47 | 50V | elect | D6003 | 8-719-815-55 | 1S1555 | | |
| | | | | | D6004 | 8-719-815-55 | 1S1555 | | |
| C6024 | 1-108-632-00 | 0.033 | 100V | 10% mylar | D6005 | 8-719-815-55 | 1S1555 | | |
| C6025 | 1-130-270-00 | 0.1 | 100V | 5% film | | | | | |
| C6026-6028 | 1-101-004-00 | 0.01 | | | D6007 | 8-719-815-55 | 1S1555 | | |
| C6029 | 1-108-634-00 | 0.047 | 100V | 10% mylar | D6008 | 8-719-815-55 | 1S1555 | | |
| C6030-6032 | 1-123-319-00 | 47 | 16V | elect | D6009 | 8-719-815-55 | 1S1555 | | |
| | | | | | D6010 | 8-719-815-55 | 1S1555 | | |
| C6033 | 1-108-630-00 | 0.022 | 100V | 10% mylar | D6011 | 8-719-815-55 | 1S1555 | | |
| C6034 | 1-129-899-00 | 0.056 | | 2% film | | | | | |
| C6035 | 1-108-626-00 | 0.01 | 100V | 10% mylar | ⇒ D6012 | 8-719-022-21 | 1T22AM | | |
| C6036 | 1-129-899-00 | 0.056 | | 2% film | ⇒ D6013 | 8-719-022-21 | 1T22AM | | |
| C6037 | 1-108-634-00 | 0.047 | 100V | 10% mylar | D6014 | 8-719-815-55 | 1S1555 | | |
| | | | | | D6015 | 8-719-815-55 | 1S1555 | | |
| C6038 | 1-108-626-00 | 0.01 | 100V | 10% mylar | | | | | |
| C6039 | 1-123-319-00 | 47 | 16V | elect | | | | | |
| C6040 | 1-130-270-00 | 0.1 | | 5% film | | | ICs | | |
| C6041 | 1-123-353-00 | 2.2 | 50V | elect | IC6001 | 8-759-145-58 | μPC4558 | С | |
| C6042-6044 | 1-101-004-00 | 0.01 | | | IC6002 | 8-759-145-58 | μPC4558 | C | |
| | | | | | IC6003 | 8-759-115-55 | μPC1555 | C | |
| | 1-130-270-00 | 0.1 | | 5% film | IC6004 | 8-759-115-55 | μPC1555 | C | |
| | 1-123-319-00 | 47 | 16V | elect | IC6005 | 8-759-900-00 | SN74LS0 | 0N | |
| | 1-101-004-00 | 0.01 | | | | | | | |
| C6052 | 1-123-352-00 | 1 | 50V | | IC6006 | 8-759-145-58 | μPC4558 | C | |
| C6053 | 1-123-352-00 | 1 | 50V | elect | IC6007 | 8-759-145-58 | μPC4558 | C | |
| | | | | | IC6008 | 8-751-580-10 | CX158 | | |
| C6054 | 1-108-642-00 | 0.22 | | 10% mylar | IC6009 | 8-759-901-23 | SN74LS1 | 23N | |
| C6055 | 1-123-352-00 | 1 | | elect | | | | | |
| C6056 | 1-123-630-00 | 0.022 | 100V | 10% mylar | | | | | |
| C6057 | 1-102-824-00 | 4 70p | | 5% | | C | OILS | | |
| C6058 | 1-123-320-00 | 100 | 16V | elect | L6001 | 1-408-243-21 | 12mH | 5% | |
| | | | | | L6001 | 1-408-160-00 | 15.75mH | | |
| C6059 | 1-123-316-00 | 10 | 16V | | L6003, 6004 | | 12mH | 5% | |
| C6060 | 1-129-927-00 | 0.015 | | 5% polypropylene | 23003, 0004 | 1 100 210-21 | 1211111 | 0 /0 | |
| C6061 | 1-106-188-00 | 0.0047 | 100V | 5% mylar | | | | | |

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| | Ref. No. | Part No. | | Descript | ion Remark | Ref. No. | Part No. | | Descript | ion | Remark |
|---|----------------|------------------------------|-------------|----------|------------------|-------------|-----------------|-------|-----------|----------|-------------|
| | | TRAN | SISTORS | | | R6029 | 1-246-807-00 | 100k | | carbo | 27 |
| | | | 0.0.0.0 | | | R6030 | 1-213-127-00 | 47 | 1W | | oxide |
| - | Q6001 | 8-729-612-77 | 2SA102 | 27R | | 1.0030 | 1-215-127-00 | 4/ | I W | | lammable) |
| | Q6002,6003 | 8-729-663-47 | 2SC136 | | | R6031 | 1-246-866-00 | 75k | | carbo | |
| | Q6004 | 8-729-306-92 | 2SD669 | | | R6032 | 1-246-795-00 | 10k | | carbo | |
| | Q6005 | 8-729-304-92 | 2SB649 | | | R6033 | 1-247-059-00 | 620k | | carbo | |
| | Q6006 | 8-729-663-47 | 2SC136 | | | 10033 | 1-247-039-00 | UZUR | | Caroo | , II |
| | 2000 | | | | | R6034 | 1-246-762-00 | 18 | | carbo | n |
| | Q6007 | 8-729-306-92 | 2SD669 | A | | R6035 | 1-246-786-00 | 1.8k | | carbo | |
| | Q6008 | 8-729-304-92 | 2SB649 | A | | | 1-246-981-00 | 4.7 | | carbo | |
| | Q6009 | 8-729-663-47 | 2SC136 | 4 | | | | *** | | | lammable) |
| = | Q6010 | 8-729-612-77 | 2SA102 | 27R | | R6038, 6039 | 1-213-137-00 | 330 | 1W | | oxide |
| | Q6011 | 8-729-663-47 | 2SC136 | 64 | | | 1 -10 10 . 00 | 000 | 2 " | | lammable) |
| | | | | | | R6040 | 1-246-803-00 | 47k | | carbo | |
| | Q6012-6014 | 8-761-622-00 | 2SC163 | 36 | | | | | | | |
| = | Q6015 | 8-729-612-77 | 2SA102 | 27R | | R6041 | 1-246-807-00 | 100k | | carbo | n |
| | Q6016-6033 | 8-729-663-47 | 2SC136 | 54 | | R6042 | 1-212-718-00 | 470k | ½W | | etal oxide |
| | | | | | | R6043 | 1-246-771-00 | 100 | , | carbo | |
| | | | | | | R6044 | 1-214-156-00 | 10k | 1/4W | | etal oxide |
| | | RES | ISTORS | | | R6045 | 1-214-154-00 | 8.2k | 1/4W | | etal oxide |
| | | | | 4.4=== | | | 2 - 2 . 2 . 0 0 | 01211 | , , , , , | 1,0 111 | 07140 |
| | R6001 | 1-214-178-00 | 82k | 1/4W | 1% metal oxide | R6046 | 1-214-138-00 | 1.8k | 1/4W | 1% m | etal oxide |
| | R6002 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | R6047 | 1-214-156-00 | 10k | 1/4W | | etal oxide |
| | R6003 | 1-214-178-00 | 82k | 1/4W | 1% metal oxide | R6048 | 1-214-180-00 | 100k | 1/4W | | etal oxide |
| | R6004 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | R6049 | 1-214-132-00 | 1k | 1/4W | | etal oxide |
| | R6005 | 1-214-178-00 | 82k | 1/4W | 1% metal oxide | R6050 | 1-214-164-00 | 22k | ½W | | etal oxide |
| | Denne | 1 214 162 00 | 1.01- | 1/117 | 107 | | 1. 10. 00 | | 7-4-4-4 | 2 /0 111 | otal Oxido |
| | R6006 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | R6051 | 1-246-807-00 | 100k | | carbo | n |
| | R6007 | 1-246-787-00 | 2.2k | | carbon | R6052 | 1-214-116-00 | 220 | 1/4W | | etal oxide |
| | R6008 | 1-246-771-00 | 100 | 1317 | carbon | R6053 | 1-214-160-00 | 15k | 1/4W | | etal oxide |
| | R6009 | 1-213-155-00 | 10k | 1W | metal oxide | R6054 | 1-214-125-00 | 510 | 1/4W | | netal oxide |
| | D.CO.LO | 1 246 707 00 | 1.61- | | (nonflammable) | R6055, 6056 | 1-246-807-00 | 100k | | carbo | |
| | R6010 | 1-246-797-00 | 15k | | carbon | | | | | | |
| | D 6011 | 1 246 940 00 | 21. | | an than | R6057 | 1-214-150-00 | 5.6k | 1/4W | 1% m | etal oxide |
| | R6011 | 1-246-849-00 | 3k 240 | | carbon | R6058 | 1-214-152-00 | 6.8k | 1/4W | 1% m | etal oxide |
| | R6012 R6013 | 1-246-836-00 | 10k | | | R6059, 6060 | 1-246-783-00 | 1k | | carbo | n |
| | R6014 | 1-246-795-00 1-246-799-00 | | | carbon | R6061 | 1-246-795-00 | 10k | | carbo | n |
| | | | 22k 2.2k | | carbon carbon | R6062 | 1-214-152-00 | 6.8k | 1/4W | 1% m | etal oxide |
| | K0013, 0010 | 1-246-787-00 | 2.4K | | caroon | | | | | | |
| | R6017 | 1-246-859-00 | 20k | | carbon | R6063 | 1-214-150-00 | 5.6k | 1/4W | 1% m | etal oxide |
| | R6017 | 1-246-772-00 | 120 | | carbon | R6064 | 1-246-803-00 | 47k | | carbo | n |
| | R6019 | 1-246-787-00 | 2.2k | | carbon | R6065 | 1-246-807-00 | 100k | | carbo | n |
| | | 1-246-981-00 | 4.7 | | carbon | R6066 | 1-246-789-00 | 3.3k | | carbo | n |
| | R0020, 0021 | 1-240-981-00 | 7.7 | | (nonflammable) | R6067 | 1-246-864-00 | 51k | | carbo | n |
| | R6022 | 1-246-795-00 | 10k | | carbon | | | | | | |
| | N0022 | 1-240-793-00 | IUK | | caroon | R6068 | 1-246-795-00 | 10k | | carbo | n |
| | P 6022 | 1 214 190 00 | 1001 | 1/-11/ | 10% matal avida | R6069 | 1-246-848-00 | 2.4k | | carbo | |
| | R6023 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide | R6070 | 1-246-795-00 | 10k | | carbo | n |
| | R6024 | 1-246-803-00 | 47k | | carbon | R6072 | 1-246-803-00 | 47k | | carbo | n |
| | R6025 | 1-246-807-00 | 100k | | carbon | R6073 | 1-246-783-00 | 1.0k | | carbo | |
| | | 1-246-795-00 | 10k | 1/31/ | carbon | | | | | | |
| | R6028 | 1-212-718-00 | 470k | ½W | 1% metal oxide | R6074, 6075 | 1-246-803-00 | 47k | | carbo | n |
| | | | | | | | | | | | |

| Ref. No. | Part No. | 1 | Descriptio | n Remark | Ref. No. | Part No. | De | escripti | on Remark |
|-------------|--------------|------|------------|----------------|----------|--------------|-----------|----------|----------------|
| R6076 | 1-246-795-00 | 10k | | carbon | R6132 | 1-246-766-00 | 39 | | carbon |
| R6077 | 1-246-791-00 | 4.7k | | carbon | R6133 | 1-246-794-00 | 8.2k | | carbon |
| R6078 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide | R6134 | 1-246-795-00 | 10k | | carbon |
| R6079 | 1-246-783-00 | 1.0k | | carbon | R6135 | 1-246-850-00 | 3.6k | | carbon |
| R6080-6086 | 1-246-795-00 | 10k | | carbon | R6136 | 1-246-792-00 | 5.6k | | carbon |
| R6087 | 1-246-864-00 | 51k | | carbon | R6137 | 1-214-149-00 | 5.1k | 1/4W | 1% metal oxide |
| R6088 | 1-246-795-00 | 10k | | carbon | R6138 | 1-214-141-00 | 2.4k | 1/4W | 1% metal oxide |
| R6089 | 1-246-783-00 | 1.0k | | carbon | | 1-214-180-00 | 100k | 1/4W | 1% metal oxide |
| | | | | | R6143 | 1-246-795-00 | 10k | | carbon |
| R6090 | 1-246-864-00 | 51k | | carbon | R6144 | 1-214-149-00 | 5.1k | 1/4W | 1% metal oxide |
| R6091 | 1-246-795-00 | 10k | | carbon | R6145 | 1-214-165-00 | 24k | 1/4W | 1% metal oxide |
| R6092 | 1-246-783-00 | 1.0k | | carbon | R6146 | 1-246-807-00 | 100k | | carbon |
| R6093 | 1-214-790-00 | 2.2M | 1/2W | 1% metal oxide | | | | | |
| R6094 | 1-246-803-00 | 47k | | carbon | R6147 | 1-202-455-00 | 1M | 1/4W | composition |
| | | | | | R6148 | 1-212-718-00 | 470k | ½W | 1% metal oxide |
| R6095 | 1-246-807-00 | 100k | | carbon | R6149 | 1-212-711-00 | 240k | 1/2W | 1% metal oxide |
| R6096 | 1-214-141-00 | 2.4k | 1/4W | 1% metal oxide | R150 | 1-202-473-00 | 5.6M | 1/4W | composition |
| R6097 | 1-214-172-00 | 47k | 1/4W | 1% metal oxide | R151 | 1-214-141-00 | 2.4k | 1/4W | 1% metal oxide |
| R6098 | 1-214-790-00 | 2.2M | 1/2W | 1% metal oxide | | | | | |
| R6099 | 1-214-116-00 | 220 | 1/4W | 1% metal oxide | RV6001 | 1-224-921-00 | Variable, | 20k | GAIN RED |
| | | | | | RV6002 | 1-224-920-00 | Variable, | 10k | BIAS RED |
| R6100 | 1-246-807-00 | 100k | | carbon | RV6003 | 1-224-921-00 | Variable, | 20k | GAIN GREEN |
| R6101 | 1-246-795-00 | 10k | | carbon | RV6004 | 1-224-920-00 | Variable, | 10k | BIAS GREEN |
| R6102 | 1-246-803-00 | 47k | | carbon | RV6005 | 1-224-921-00 | Variable, | 20k | GAIN BLUE |
| R6103 | 1-212-718-00 | 470k | 1/2W | 1% metal oxide | | | | | |
| R6104 | 1-214-116-00 | 220 | 1/4W | 1% metal oxide | RV6006 | 1-224-920-00 | Variable, | 10k | BIAS BLUE |
| | | | | | RV6007 | 1-224-922-00 | Variable, | 50k | H AMP |
| R6105 | 1-246-807-00 | 100k | | carbon | RV6008 | 1-224-923-00 | Variable, | 100k | H AMP TILT |
| R6106 | 1-246-795-00 | 10k | | carbon | RV6009 | 1-224-922-00 | Variable, | 50k | Y BOW |
| | 1-246-807-00 | 100k | | carbon | RV6010 | 1-224-921-00 | Variable, | 20k | H STAT |
| R6109 | 1-214-790-00 | 2.2M | ½W | 1% metal oxide | | | | | |
| R6110, 6111 | 1-246-803-00 | 47k | | carbon | RV6011 | 1-224-920-00 | Variable, | 10k | V STAT |
| | | | | | RV6012 | 1-224-916-00 | Variable, | 500 | U/S V SIZE |
| R6112 | 1-246-807-00 | 100k | | carbon | RV6013 | 1-224-917-00 | Variable, | 1k | N/S V SIZE |
| R6113 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide | RV6014 | 1-224-939-00 | Variable, | 5k | EXP CENT |
| R6114 | 1-214-150-00 | 5.6k | 1/4W | 1% metal oxide | RV6015 | 1-224-922-00 | Variable, | 50k | V CENT |
| R6115 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide | | | | | |
| R6116 | 1-214-790-00 | 2.2M | 1/2W | 1% metal oxide | RV6016 | 1-224-921-00 | Variable, | 20k | BALANCE |
| | | | | | RV6017 | 1-224-916-00 | Variable, | 500 | EXPAND AMP |
| R6117 | 1-214-108-00 | 100 | 1/4W | 1% metal oxide | RV6018 | 1-224-920-00 | Variable, | 10k | U/S AMP |
| R6118-6120 | 1-246-807-00 | 100k | | carbon | RV6019 | 1-224-920-00 | Variable, | 10k | NORMAL AMP |
| R6121 | 1-246-864-00 | 51k | | carbon | RV6020 | 1-224-921-00 | Variable, | 20k | TILT |
| R6122 | 1-246-795-00 | 10k | | carbon | | | | | |
| R6123 | 1-246-848-00 | 2.4k | | carbon | RV6021 | 1-224-918-00 | Variable, | , 2k | EXPAND AMP |
| | | | | | RV6022 | 1-224-920-00 | Variable | , 10k | U/S AMP |
| R6125 | 1-246-789-00 | 3.3k | | carbon | RV6023 | 1-224-920-00 | Variable | , 10k | NORMAL AMP |
| R6126 | 1-246-785-00 | 1.5k | | carbon | RV6024 | 1-224-941-00 | Variable | , 20k | H OSC |
| R6127 | 1-214-132-00 | 1k | 1/4W | 1% metal oxide | RV6025 | 1-224-941-00 | Variable | , 20k | H PHASE |
| R6128 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide | | | | | |
| R6129 | 1-246-775-00 | 220 | | carbon | RV6026 | 1-224-942-00 | Variable | , 50k | H 5µsec |
| | | | | | RV6027 | 1-224-941-00 | Variable | , 20k | EXP. H. SIZE |
| R6130 | 1-246-763-00 | 22 | | carbon | RV6028 | 1-224-978-00 | adjustab | le, 50 | AFC SLOW FAST |
| R6131 | 1-214-138-00 | 1.8k | 1/4W | 1% metal oxide | | | | | POSITION |

| Ref. No. | Part No. | - | Descrip | tion | Remark | | Ref. No. | Part No. | L | Descript | ion | Remark |
|-----------|------------------|--------------|---------|----------|--------------|----|-------------|--------------|--------|----------|-------|------------|
| | MISCEL | LANEOUS | | | | | C8009 | 1-102-973-00 | 100p | 5% | | |
| S6001 | 1.552.909.00 | T12 | DED CT | m or | | | C8010 | 1-123-356-00 | 10 | 50V | elect | |
| | 1-552-898-00 | Togle, I | | | | | | | | | | |
| S6002 | 1-552-898-00 | Togle, (| | | | | C8011 | 1-123-349-00 | 1000 | 35V | elect | |
| S6003 | 1-552-898-00 | Togle, I | | | | | C8012 | 1-108-702-00 | 0.068 | | 10% | mylar |
| S6004 | 1-552-898-00 | Togle,C | | | I | | C8013 | 1-123-172-00 | 2.2 | | elect | 551,9 522 |
| S6005 | 1-552-898-00 | Togle, S | SET UP | | | | C8014 | 1-123-349-00 | 1000 | | elect | |
| | | | | | | | C8015 | 1-108-700-00 | 0.047 | | | mylar |
| 8. DB BOA | | | | | | | | | | | 20,0 | **** |
| • | 1-601-462-00 DB | board | | | E-209 | | C8016 | 1-108-692-00 | 0.01 | 200V | 10% | mylar |
| | CAPAC | ITORS | | | | | C8017 | 1-108-702-00 | 0.068 | 200V | | mylar |
| | | | | | | | C8018 | 1-102-244-00 | 220P | 500V | | , |
| C1, 2 | 1-123-319-00 | 47 | 16V | elect | | | C8019 | 1-130-065-00 | 5600P | 1.5kV | | |
| | DIO | DEC | | | | | C8020 | 1-123-093-00 | 22 | 160V | | |
| | | DES | | | | | | | | | | |
| D1, 2 | 8-719-815-55 | 1S1555 | | | | | C8021, 8022 | 1-123-320-00 | 100 | 16V | elect | |
| | | 0 | | | | | C8023 | 1-102-228-00 | 470P | 500V | | |
| | 10 | G | | | | | C8024, 8025 | 1-130-179-00 | 2 | | | ropylene |
| IC1 | 8-759-145-58 | μPC4558 | C | | | | C8026 | 1-108-626-00 | 0.01 | 100V | 10% | mylar |
| | DECIS | TORR | | | | | C8027 | 1-103-733-00 | 0.0022 | 50V | | styrene |
| | RESIS | TORS | | | | | | | | | | |
| R1 | 1-214-149-00 | 5.1k | 1/4W | 1% m | etal oxide | | C8028, 8029 | 1-123-319-00 | 47 | 16V | elect | |
| R2, 3 | 1-214-156-00 | 10k | 1/4W | 1% m | etal oxide | | C8030 | 1-130-203-11 | 0.01 | 50V | 5% pc | olypropyle |
| R4 | 1-214-149-00 | 5.1k | 1/4W | 1% m | etal oxide | | C8031 | 1-102-244-51 | 220P | 500V | | |
| R5 | 1-214-160-00 | 15k | 1/4W | 1% m | etal oxide | | C8033 | 1-123-352-51 | 1 | 50V | elect | |
| R6 | 1-214-156-00 | 10k | 1/4W | 1% m | etal oxide | | C8034 | 1-102-978-00 | 220p | 5% | | |
| R7 | 1-214-168-00 | 33k | 1/4W | 1% m | etal oxide | | C8035 | 1-123-026-00 | 2.2 | 160V | elect | |
| R8 | 1-214-156-00 | 10k | 1/4W | 1% m | etal oxide | | C8036 | 1-108-632-00 | 0.033 | 100V | 10% | mylar |
| R9 | 1-214-132-00 | 1k | 1/4W | 1% m | etal oxide | | C8037, 8038 | 1-129-948-00 | 0.02 | 1kV | film | |
| R10 | 1-212-718-00 | 470k | ½W | 1% m | etal oxide | | C8039 | 1-102-824-00 | 470p | 5% | | |
| | | | | | | | C8040 | 1-129-948-00 | 0.02 | 1kV | 5% | |
| RV1-3 | 1-224-931-00 | Variable, | 20k m | netal or | kide; V.TILT | | | | | | | |
| RV4 | 1-224-931-00 | Variable, | 20k m | netal or | kide; Y.TILT | | C8041, 8042 | 1-108-638-00 | 0.1 | 100V | 10% | mylar |
| | | | | | | | C8043 | 1-130-330-00 | 1.4 | 200V | polyp | ropylene |
| 9. E BOAF | RD | | | | | | C8044 | 1-102-978-00 | 220p | | | |
| | ♦ A-1345-241-A I | E Board, cor | mplete | | E-101 | | | Di | ODES | | | |
| | CAPA | CITORS | | | | | D8001-8006 | 8-719-815-55 | 1S1555 | | | |
| C8001 | 1-108-630-00 | 0.022 | 100V | 10% | mylar | => | D8007 | 8-719-320-31 | HF1C | | | |
| C8002 | 1-108-622-00 | 0.0047 | | | mylar | | | 8-719-200-02 | 10E2 | | | |
| C8003 | 1-123-316-00 | 10 | | elect | , | | | 8-719-320-31 | HF1C | | | |
| C8004 | 1-123-352-00 | 1 | | elect | | | D8012 | 8-719-305-15 | GH3F | | | |
| C8005 | 1-108-632-00 | 0.033 | | 10% | mylar | | | | | | | |
| | | 0.000 | 2001 | 2070 | -1-7 +004 | | D8013 | 8-719-305-15 | GH3F | | | |
| C8006 | 1-102-030-00 | 330p | 500V | 10% | | ⇒ | D8014 | 8-719-305-15 | GH3F | | | |
| C8007 | 1-121-999-00 | 10 | | elect | 4 | | D8015 | 8-719-815-55 | 1S1555 | | | |
| C8008 | 1-108-703-00 | 0.082 | | | mylar | | | 8-719-815-55 | 181555 | | | |
| | | | | | | | D8022 | 8-719-931-15 | EQB01- | | | |

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | | Descript | tion Remark |
|----------------------|-----------------|----------------------|--------|--------------|-----------------------------------------|------------|---------------|----------------------------|
| > D8023,8024 | 8-719-320-31 | HF1C | | | RES | ISTORS | | |
| D8025 | 8-719-320-31 | HF1C | | | *************************************** | .0.0110 | | |
| | 8-719-815-55 | 1S1555 | | R8001 | 1-246-492-25 | 6.2k | 1/31/ | carbon |
| D8034 | 8-719-901-19 | V11N | | R8002 | 1-246-501-25 | 15k | | carbon |
| D8034 | 8-719-815-55 | 1S1555 | | R8003 | 1-246-301-25 | 10k | | |
| 20055 | 0-717-013-33 | 151555 | | | 1-246-473-25 | | | carbon |
| | | Cs | | | 1-246-489-25 | 1k 4.7k | | carbon |
| | | ics . | | 110000, 0007 | 1-240-407-23 | 7./% | 74 W | Carbon |
| IC8001, 8002 | 8-759-145-58 | μPC4558C | | R8008 | 1-246-513-25 | 47k | 1/4W | carbon |
| IC8003 | 8-759-729-03 | NJM2903-D | | R8009 | 1-246-521-25 | 100k | | carbon |
| | | | | R8010 | 1-246-503-25 | 18k | | carbon |
| | CC | DILS | | R8011 | 1-246-529-25 | 220k | | carbon |
| L8001 | 1-408-242-21 | 10mH 5% | | R8012 | 1-246-449-25 | 100 | | carbon |
| | 1-406-242-21 | | DAC | | 2 2 1 0 1 1 7 2 0 | 200 | /4 ** | 0410011 |
| L8002 | | Phase Adjust 15mH | PAC | R8013 | 1-247-005-00 | 100 | 1/4W | carbon (nonflammable) |
| L8003 | 1-407-841-12 | | HCC | R8014 | 1-213-147-00 | 2.2k | 1W | metal oxide (nonflammable) |
| L8005 | 1-459-104-11 | 10mH | HCC | R8015 | 1-214-168-00 | 33k | 1/4W | 1% metal oxide |
| L8006 | 1-421-368-11 | | HLC | R8016 | 1-214-172-00 | 47k | 1/4W | 1% metal oxide |
| | | | | R8017 | 1-246-520-25 | 91k | 1/4W | carbon |
| L8007 | 1-421-364-11 | choke | PCC | 10017 | 1 240 020 20 | JIK | 74 Y Y | caroon |
| L8008 | 1-408-236-21 | 2.7mH 5% | | R8018 | 1-246-521-25 | 100k | 1/4W | carbon |
| L8009 | 1-408-240-21 | 6.8mH 10% | | R8019 | 1-246-504-25 | 20k | 1/4W | carbon |
| | | | | R8020 | 1-246-494-25 | 7.5k | 1/4W | carbon |
| | TRAN | SISTORS | | R8021 | 1-246-473-25 | 1k | 1/4W | carbon |
| Q8001 | 8-729-612-77 | 2SA1027R | | R8022 | 1-213-137-00 | 330 | 1W | metal oxide (nonflammable |
| Q8002 | 8-729-663-47 | 2SC1364 | | 10022 | 1-215-157-00 | 220 | 1 ** | metal oxide (nomiaminable |
| Q8002 | 8-729-347-82 | 2SD478 | | R8023 | 1-246-481-25 | 2.2k | 1/4W | carbon |
| Q8004 | 0 /2 / 3 1 / 02 | 2SK23A-840 | | R8024 | 1-246-491-25 | 5.6k | 1/4W | carbon |
| Q8005 | 8-723-384-01 | 2SA1027R | | R8025 | 1-213-143-00 | 1k | 1W | |
| 20003 | 0 723 304 01 | 20/11/02/10 | | R8026 | 1-246-441-25 | 47 | 1/4W | metal oxide (nonflammable) |
| Q8006 | 8-765-020-00 | 2SA884 | | R8027 | 1-246-453-25 | 150 | 1/4W | carbon |
| Q8007 | 8-765-012-20 | 2SC1811 | | K8027 | 1-240-433-23 | 130 | 74 W | carbon |
| Q8007 | 8-729-309-36 | 2SA893A-EV | | B0020 0020 | 1 212 271 00 | 1.0 | 1 7 7 7 | 4.1 13 - (|
| Q8009 | 8-729-356-82 | 2SB568 | | | 1-212-361-00 | 1.2 | 1W | metal oxide (nonflammable |
| Q8010 | 8-729-309-06 | 2SC1890A-EV | , | R8030 | 1-213-140-00 | 560 | 1W | metal oxide (nonflammable |
| 20010 | 0-127-307-00 | 25C1070A-LV | | R8031 | 1-212-366-00 | 3.3 | 1W | metal oxide (nonflammable |
| Q8011 | 8-729-347-82 | 2SD478 | | R8032 | 1-246-473-25 | 1k | 1/4W | carbon |
| Q8011 Q8012 | 8-765-012-20 | 2SC1811 | | R8033 | 1-246-481-25 | 2.2k | 1/4W | carbon |
| Q8012 Q8013 | 8-729-347-82 | 2SD478 | | D 9024 | 1 246 490 25 | 4.7 | 1/31/ | coshon |
| Q8013 Q8014 | 8-729-356-82 | 2SB568 | | R8034 | 1-246-489-25 | 4.7 | 1/4W | carbon |
| Q8014 > Q8015 | 8-726-420-00 | SG264A | | R8035 | 1-212-356-00 | 0.47 | 1W | metal oxide (nonflammable) |
| Q0013 | 0-720-720-00 | DUZUTA | | R8036 | 1-213-129-00 | 68 | 1W | metal oxide (nonflammable) |
| Q8016 | 8-729-347-82 | 2SD478 | | R8037 | 1-246-997-00 | 1.2 | 1/4W | carbon (nonflammable) |
| Q8016 Q8017, 8018 | | 2SC1890A-EV | , | R8038 | 1-206-672-00 | 2.2k | 2W | metal oxide (nonflammable) |
| Q8017, 8016 Q8019 | 8-729-663-47 | 2SC1364 | | D.0022 | 1 247 012 00 | 4.01 | 1/22 | 1 / 100 |
| Q8019 Q8020 | 8-765-222-20 | 2SC1364 2SC1963 | | R8039 | 1-247-012-00 | 1.8k | 1/4W | carbon (nonflammable) |
| | | | | R8040 | 1-247-027-00 | 6.8 | 1/8W | carbon (nonflammable) |
| Q8021 | 8-765-020-00 | 2SA884 | | R8041 | 1-246-476-25 | 1.3k | 1/4W | carbon |
| 00022 | 9 720 662 42 | 2001264 | | R8042 | 1-213-162-00 | 39k | 1W | metal oxide (nonflammable) |
| Q8022 | 8-729-663-47 | 2SC1364 | | R8043 | 1-246-521-25 | 100k | 1/4W | carbon |
| Q8023 | 8-729-612-77 | 2SA1027R | | | | | | |
| Q8026 | 8-729-663-47 | 2SC1364 | | | | | | |
| Q8029 | 8-729-366-81 | 2SD668 | | | | | | |
| . FIGURAL ONS | 9 720 272 20 | 75777777 | | | | | | |

⇒ Q8030-8032 8-729-372-30 2SC1723

| 1 | Ref. No. | Part No. | | Des | cription Remark | Ref. No. | Part No. | | Descrip | notion Remark |
|---|----------|------------------|-------|--------------|----------------------------|----------------|--------------|-----------|---------------|------------------------|
| | R8044 | 1-246-489-25 | 4.7k | 1/4W | carbon | R8093 | 1-246-497-25 | 10k | 1/4W | carbon |
| | R8045 | 1-246-513-25 | 47k | 1/4W | carbon | R8094 | 1-214-167-00 | 30k | 1/4W | 1% metal oxide |
| | R8046 | 1-214-154-00 | 8.2k | 1/4W | 1% metal oxide | | | | | |
| | R8047 | 1-246-514-25 | 51k | 1/4W | carbon | R8095 | 1-246-497-25 | 10k | 1/4W | carbon |
| | R8048 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide | R8096 | 1-206-676-00 | 3.3k | 2W | metal oxide (nonflamma |
| | | | | | | R8097 | 1-247-033-00 | 100 | 1/8W | carbon (nonflammable) |
| | R8049 | 1-246-483-25 | 2.7k | 1/4W | carbon | R8098 | 1-206-664-00 | 1k | 2W | metal oxide (nonflamma |
| | R8050 | 1-246-487-25 | 3.9k | 1/4W | carbon | R8099 | 1-246-449-25 | 100 | 1/4W | carbon |
| | R8051 | 1-246-483-25 | 2.7k | 1/4W | carbon | | | | | |
| | R8052 | 1-214-154-00 | 8.2k | 1/4W | 1% metal oxide | R8100 | 1-246-527-25 | 180k | 1/4W | carbon |
| | R8053 | 1-246-491-25 | 5.6k | 1/4W | carbon | R8101-8103 | 1-246-497-25 | 10k | 1/4W | carbon |
| | | | | | | R8104 | 1-202-455-11 | 1M | 1/4W | 5% composition |
| | R8054 | 1-246-473-25 | 1k | 1/4W | carbon | R8105 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| | R8055 | 1-246-491-25 | 5.6k | 1/4W | carbon | R8106 | 1-214-154-00 | 8.2k | 1/4W | 1% metal oxide |
| | R8056 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide | | | | , | |
| | R8057 | 1-246-487-25 | 3.9k | 1/4W | carbon | R8107 | 1-246-457-25 | 220 | 1/4W | carbon |
| | R8058 | 1-246-489-25 | 4.7k | 1/4W | carbon | | 1-246-449-00 | 100 | 1/4W | carbon |
| | 210020 | 1 1 1 0 1 0 7 20 | 11720 | 740 11 | | R8110 | 1-206-459-00 | 6.8 | 2W | metal oxide nonflamm |
| | R8059 | 1-213-124-00 | 27 | 1 W | metal oxide (nonflammable) | | | | | |
| | R8060 | 1-213-127-00 | 47 | 1W | metal oxide (nonflammable) | RV8001 | 1-224-921-00 | variable, | 20k | V. PIN BIANCE |
| | R8061 | 1-214-156-00 | 10k | 1/4W | 1% metal oxide | RV8002 | 1-224-921-00 | variable, | | V. PIN GAIN |
| | R8062 | 1-214-172-00 | 47k | 1/4W | 1% metal oxide | RV8003 | 1-224-920-00 | variable, | | V. SIZE |
| | R8064 | 1-214-158-00 | 1.2k | 1/4W | 1% metal oxide | RV8004 | 1-224-918-00 | variable, | | H. CENTER |
| | 10001 | 1 21 1 100 00 | 1.24 | /40 91 | 170 moun Orno | RV8005 | 1-224-919-00 | variable, | | U. SH SIZE |
| | R8065 | 1-214-152-00 | 6.8k | 1/4W | 1% metal oxide | 10003 | 1 221 717 00 | variable, | JR | C. SII BIEL |
| | R8066 | 1-246-482-25 | 2.4k | 1/4W | carbon | RV8006 | 1-224-919-00 | variable, | 51- | H. SIZE |
| | R8067 | 1-246-473-25 | 1k | 1/4W | carbon | RV8007 | 1-224-922-00 | variable, | | H.BLANK WIDTH |
| | R8069 | 1-246-490-25 | 5.1k | 1/4W | carbon | RV8008 | 1-226-114-00 | | | FOCUS (HIGH VOLT) |
| | R8071 | 1-246-505-25 | 22k | 1/4W | carbon | RV8009 | 1-224-922-00 | variable, | | SCREEN |
| | K00/1 | 1-240-303-23 | ZZK | 74 W | Carbon | RV8007 | 1-224-922-00 | variauie, | JUK | SCREEN |
| | R8072 | 1-246-497-25 | 10k | 1/4W | carbon | | | | | |
| | R8072 | 1-246-473-25 | 1k | 1/4W | carbon | | TRANS | FORMER | 2 | |
| | R8074 | | | | | | Inaire | ONWILL | 3 | |
| 1 | R8075 | 1-206-676-00 | 3.3k | 2W | metal oxide (nonflammable) | T8001 | 1-421-365-00 | | | POT |
| | | 1-202-629-15 | 220k | ½W | composition | | 1-437-071-00 | Horizon | ol Deiv | |
| | R8076 | 1-246-997-00 | 1.2 | 1/4W | carbon (nonflammable) | T8002 T8003 | 1-437-241-00 | | | out, HOT |
| | D9077 | 1 202 641 15 | 6901- | 1/31/ | composition | T8003 | 1-407-849-21 | Dynamic | - | |
| | R8077 | 1-202-641-15 | 680k | | composition | 10004 | 1-40/-049-21 | Бупаник | rocus | , DF1 |
| | R8078 | 1-202-651-15 | 1.8M | ½W | composition | | | | | |
| | R8079 | 1-202-633-15 | 330k | 1/2W | composition | | | | | |
| | R8080 | 1-246-499-25 | 12k | 1/4W 1/4W | carbon composition | | THE | RMISTOR | | |
| | R8081 | 1-202-455-11 | 1 M | 74 W | composition | | | | | |
| | D0000 | 1 214 157 00 | | 1/357 | 1% metal oxide | TH1 | 1-800-202-XX | | S -10k | |
| | R8082 | 1-214-157-00 | 11k | 1/4W | 1% metal oxide | | | | | |
| | | 1-214-180-00 | 100k | 1/4W | | | | | | |
| | R8086 | 1-214-177-00 | 75k | 1/4W | 1% metal oxide | | | | | |
| | R8087 | 1-214-162-00 | 18k | 1/4W | 1% metal oxide | | | | | |
| | R8089 | 1-202-455-11 | 1 M | 1/4W | 5% composition | | | | | |
| | R8090 | 1-214-145-00 | 3.6k | 1/4W | 1% metal oxide | | | | | |
| | R8091 | 1-214-108-00 | 100 | 1/4W | 1% metal oxide | | | | | |
| | R8092 | 1-214-158-00 | 12k | 1/4W | 1% metal oxide | | | | | |

| Ref. No. | Part No. | | Description | Remark | Ref. No. | Part No. | |)escrip | tion | Rema |
|----------|-----------------------|------------|-------------|--------------|-----------|----------------|--------------|---------|-------|------|
| 0. F BC | | | | | 11. G BOA | RD | | | | |
| | ♦ 1-600-352 | 2-00 F Boa | rd | E-304 | | ♦ A-1316-006-A | G Board, cor | nplete | | E-10 |
| | CAPA | CITORS | | | | CAPA | CITORS | | | |
| 501 | <u>^</u> 1-130-060-00 | 0.1 | 125V pl | ypropylene | C601 | 1-161-500-00 | 0.0047×2 | 125V | AC | |
| 502 | <u>1-108-421-00</u> | 0.01 | 200V 10 | 0% myler | C602 | 1-123-253-00 | 22 | 160V | elect | |
| 503 | 1-161-743-00 | 4700p | 400V | | C603 | 1-161-500-00 | 0.0047×2 | 125V | AC | |
| 504 | <u>1-161-743-00</u> | 4700p | 400V | | C604, 605 | 1-123-348-00 | 470 | 35V | elect | |
| 505 | <u>1-161-743-00</u> | 4700p | 400V | | C606 | 1-101-004-00 | 0.01 | | | |
| 506 | <u>1-161-743-00</u> | 4700p | 400V | | | | | | | |
| 507 | <u> 1-161-743-00</u> | 4700p | 400V | | C607, 608 | 1-125-197-00 | 820 | 160V | elect | |
| | | - | | | C609 | 1-123-329-00 | 10 | 25 V | elect | |
| | CC | DIL | | | C610 | 1-101-004-00 | 0.01 | | | |
| 501 | <u>1-441-855-00</u> | | Transfor | mer,LFT | C611, 612 | 1-161-500-00 | 0.0047×2 | 125V | AC | |
| 502 | 1-459-215-00 | | 120µH | CORE | C613 | 1-125-198-00 | 0.0047 | 50V | elect | |
| 503 | 1-459-215-00 | | 120µH | CORE | | | | | | |
| | | | | | C614 | 1-123-336-00 | 470 | | elect | |
| HP501 | 1-800-686-00 | | Thomaint | on manitima | C617 | 1-161-500-00 | 0.0047×2 | 125V | AC | |
| 11 301 | 1-000-000-00 | | I neimist | or, positive | C618 | 1-123-336-00 | 470 | | elect | |
| | | | | | C619 | 1-161-500-00 | 0.0047×2 | 125V | AC | |
| | | | | | C620 | 1-123-336-00 | 470 | 25V | elect | |
| | | | | | C621 | 1-125-198-00 | 0.0047 | 50V | elect | |
| | | | | | C622 | 1-102-973-00 | 100p | | 5% | |
| | | | | | C623-626 | 1-101-003-00 | 0.0047 | | | |
| | | | | | C627 | 1-125-193-00 | 4700 | 35V | elect | |
| | | | | | C628 | 1-102-973-00 | 100p | | 5% | |
| | | | | | C629 | 1-102-976-00 | 180p | | 5% | |
| | | | | | C630 | 1-102-973-00 | 100p | | 5% | |
| | | | | | C631-634 | 1-101-003-00 | 0.0047 | | | |
| | | | | | C635 | 1-125-193-00 | 4700 | 35V | elect | |
| | | | | | C636 | 1-102-973-00 | 100p | | 5% | |
| | | | | | C637 | 1-102-976-00 | 180p | | 5% | |
| | | | | | C638-641 | 1-101-003-00 | 0.0047 | | | |
| | | | | | C642 | 1-125-193-00 | 4700 | 35V | elect | |
| | | | | | C643 | 1-123-328-00 | 4.7 | 25V | elect | |
| | | | | | C644 | 1-121-257-00 | 4.7 | 16V | elect | |
| | | | | | C646 | 1-123-329-00 | 10 | 25V | elect | |
| | | | | | C647 | 1-101-004-00 | 0.01 | | | |
| | | | | | C648 | 1-123-307-00 | 100 | 10V | elect | |
| | | | | | C649 | 1-123-316-00 | 10 | 16V | elect | |
| | | | | | | | | | | |

 Items marked "6" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

22

100

0.1

0.47

25V elect

16V elect

200V mylar

50V elect

1-123-330-00

1-123-320-00

1-108-704-00

1-123-351-00

C650, 651

C652

C653

C654

| Ref. No. | Part No. | | escription | Remark | Ref. 1 | Vo. | Part No. | | Descri | ption_ | Rema |
|------------------|------------------------------|---------|------------|--------|-----------|-----|-----------------------|----------|--------------|----------------------|---------|
| | DIC | DDES | | | | | TRAN | ISISTORS | | | |
| D601-604 | 8-719-911-55 | U05G | | | ⇒ Q601 | | 8-719-000-38 | Thyris | tor, CR | 3AM | |
| D605 | 8-759-157-40 | μPC574. | J | | Q602 | | 8-725-412-00 | 2SC11 | | | |
| D606 | 8-719-301-01 | SEL101 | S | | ⇒ Q603- | 605 | 8-762-020-00 | 2SA83 | | | |
| D607 | 8-759-157-40 | μPC574. | J | | Q606 | | A 8-719-000-38 | | tor, CR | 3AM | |
| D608 D610-612 | <u>↑</u> 8-759-157-41 | μPC574. | J-G | | Q607, | 608 | 8-729-307-62 | 2SD47 | | | |
| | , | | | | ⇒ Q609 | | 8-762-020-00 | 2SA83 | 5 | | |
| D613 | A 8-719-175-24 | RD7.5E | | | Q610 | | 8-729-307-62 | 2SD47 | 6A | | |
| D614 | 8-719-500-34 | S3VC40 | | | ⇒ Q611 | | 8-762-020-00 | 2SA83 | 5 | | |
| D615 | 8-719-501-34 | \$3VC40 | R | | Q612 | | 8-729-663-47 | 2SC13 | 64 | | |
| D618 | 8-719-200-02 | 10E2 | | · | Q613 | | 8-729-307-62 | 2SD47 | 6A | | |
| D619 | 8-719-815-55 | 1S1555 | | | ⇒ Q614 | | 8-719-000-38 | Thyris | tor, CR | 3AM | |
| D620 | 8-719-500-34 | \$3VC40 | | | | | | | | | |
| D621 | 8-719-501-34 | S3VC40 | R | | | | | | | | |
| D625 | 8-719-815-55 | 1S1555 | | | | | RES | ISTORS | | | |
| D626-629 | 8-719-911-55 | U05G | | | The Confe | | 4.044.44 | | | | |
| D630 | 8-719-200-02 | 10E2 | | | R602 | | 1-214-148-00 | 4.7k | 1/4W | 1% me | |
| | | | | | R603, 6 | 504 | 1-214-168-00 | 33k | 1/4W | 1% me | tal oxi |
| D631 | 8-719-815-55 | 1S1555 | | | R605 | | 1-214-162-00 | 18k | 1/4W | 1% me | tal oxi |
| D632-635 | 8-719-911-55 | U05G | | | R606 | | 1-202-621-15 | 100k | ½W | compo | sition |
| D636 | 8-719-200-02 | 10E2 | | | R607 | | 1-213-163-00 | 47k | 1W | metal | oxide |
| D637 | 8-719-815-55 | 1S1555 | | | | | | | | (nonfl | ammat |
| D638 | 8-719-500-34 | \$3VC40 | | | R608 | | 1-214-136-00 | 1.5k | 1/337 | 10/ | 4-1! |
| D.C.2.0 | 0.510.501.04 | 6031640 | 7 | | R609 | | 1-214-130-00 | 39k | 1/W | 1% me | |
| D639 | 8-719-501-34 | S3VC40 | | | R610 | | 1-214-170-00 | 2.7k | 1/4W 1/4W | 1% me | |
| D640 | 8-719-931-08 | EQB01- | | | R611 | | 1-214-132-00 | 2.7k | 74 W | 1% me | |
| D642 D643 | 8-719-931-08 8-719-815-55 | EQB01-0 | J8 | | R612 | | 1-214-151-00 | 6.2k | 1/4W | 1% me | |
| | | | | | R613 | | 1-214-166-00 | 27k | 1/4W | 10/ | -1: |
| | | | | | R614 | A | 1-214-166-00 | 27k | 74 W | 1% met | |
| | FU: | SES | | | R615 | A | 1-214-168-00 | 33k | 74 W | 1% met | |
| | | | | | R616 | 447 | 1-217-292-00 | 3.3 | 5W | wire wo | |
| F601 / | 1-532-536-00 | 125V | 1A (speed | v) | | | | 0,0 | J 11 | (nonfla | |
| F602 | | 125V | 1.6A (norm | | R617 | A | 1-214-153-00 | 7.5k | 1/4W | 1% met | |
| 7 | 1 002-000 | 125 4 | 1.0A (HOII | nai) | R618 | A | 1-214-142-00 | 2.7k | 1/4W | 1% met | |
| | | | | | R619 | | 1-214-149-00 | 5.1k | 1/4W | 1% met | al ovid |
| | ŀ | Cs | | | R620 | | 1-214-140-00 | 2.2k | 1/4W | 1% met | |
| | | | | | R621 | | 1-214-153-00 | 7.5k | 1/4W | 1% met | |
| IC601-605 | 8-759-377-23 | HA1772 | 3G | | R622 | | 1-214-143-00 | 7.5 k | 74 W | 1% met | |
| | | | | | R623 | | 1-214-160-00 | 15k | 1/4W | 1% met | |
| | | | | | R624 | | 1-214-120-00 | 330 | 1/.117 | 107 | 1 |
| | | | | | R625 | | 1-212-356-00 | 0.47 | ¼W 1W | 1% metal of (nonflar | xide |
| | | | | | | | | | | (monitia) | |

A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

specified.

| Ref. No. | Part No. | | Description | Remark |
|-----------|----------------------|------|-------------|---------------|
| R626 | 1-214-164-00 | 22k | 1/4W 1 | % metal oxide |
| R627 | 1-214-139-00 | 2k | | % metal oxide |
| R628 | 1-214-120-00 | 330 | | % metal oxide |
| R629 | 1-214-160-00 | 15k | 1/4W 19 | % metal oxide |
| R730 | 1-214-166-00 | 27k | 1/4W 19 | % metal oxide |
| R631 | 1-214-140-00 | 2.2k | ¼W 19 | % metal oxide |
| R632 | 1-214-157-00 | 11k | ¼W 19 | % metal oxide |
| R633 | 1-212-356-00 | 0.47 | 1W m | etal oxide |
| | | | (1 | onflammable) |
| R636, 63 | 7 1-214-132-00 | 1k | ⅓W 1 | % metal oxide |
| R638 | 1-214-136-00 | 1.5k | ⅓W 1 | % metal oxide |
| R639 | 1-214-160-00 | 15k | ⅓W 1 | % metal oxide |
| R640 | 1-214-154-00 | 8.2k | ½W 1 | % metal oxide |
| R641 | 1-214-125-00 | 510 | 1/4W 1 | % metal oxide |
| R642 | 1-217-194-00 | 0.33 | 2W v | vire wound |
| | | | (| nonflammable) |
| R643 | 1-214-140-00 | 2.2k | ⅓W 1 | % metal oxide |
| R644 | 1-214-148-00 | 4.7k | ½W 1 | % metal oxide |
| R645 | 1-214-149-00 | 5.1k | 1/4W 1 | % metal oxide |
| R646 | 1-214-145-00 | 3.6k | 1/4W 1 | % metal oxide |
| R647 | 1-214-140-00 | 2.2k | ½W 1 | % metal oxide |
| R648 | 1-212-363-00 | 1.8 | | netal oxide |
| D.C.C. (1 | 1 214 122 00 | 41- | | nonflammbale) |
| R651, 65 | | 1k | | % metal oxide |
| R653 | 1-214-162-00 | 18k | | % metal oxide |
| R654 | 1 -214-143-00 | 3k | ⅓W 1 | % metal oxide |
| R655 | 1-214-160-00 | 15k | ½W 1 | % metal oxide |
| R656 | 1-214-125-00 | 510 | 14W 1 | % metal oxide |
| R657 | 1-214-154-00 | 8.2k | ⅓W 1 | % metal oxide |
| R658, 63 | 59 1-214-148-00 | 4.7k | 1/4W 1 | % metal oxide |
| R660 | 1-217-195-00 | 0.39 | 2W v | vire wound |
| | | | (| nonflammbale) |
| R661 | 1-214-111-00 | 130 | ⅓W 1 | % metal oxide |
| R662 | 1-202-633-15 | 330k | ½W c | omposition |
| R666 | 1-214-166-00 | 27k | 1/4W 1 | % metal oxide |
| R667 | 1-214-142-00 | 2.7k | 4W 1 | % metal oxide |
| R668 | 1-214-168-00 | 33k | 1/4W 1 | % metal oxide |

| Note: | The components identified by shading and mark A |
|-------|-------------------------------------------------------------------|
| | are critical for safety. Replace only with part number specified. |

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No |), _ | Part No. | | Descri | ption | Remar |
|---------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------|-------------------------|--------------------------------------------------|
| R669 | A | | | 1/4W | metal | oxide |
| R670 | A | 1-214-162-00 | 18k | 1/4W | 1% me | tal oxide |
| R671 | | 1-214-111-00 | 130 | 1/4W | 1% me | tal oxide |
| R672 | | 1-214-146-00 | 3.9k | 1/4W | 1% me | tal oxide |
| R673 | Λ | 1-214-153-00 | 7.5k | 14W | 1% me | tal oxide |
| R674 | | 1-213-161-00 | 33k | 1W | metal o | xide |
| RV601 | A | 1-224-938-00 | Variable, | 2k | +90V A | ADJ |
| RV602 | | 1-224-937-00 | Variable, | 1k | +24V A | ADJ |
| RV603 | | 1-224-936-00 | Variable, | 500 | +12V A | ADJ |
| | | MISCEL | LANEOUS | | | |
| | | 1-533-087-00 | Holder, f | | | |
| | | | | | | |
| 12. H | A BO | DARD | 00 HA Boa | rd | | E-156 |
| 12. H/ | A BC | 1 -600-356- | 00 HA Boa | rd | | E-156 |
| 12. H/ | | 1 -600-356- | | rd | | E-156 |
| | | ◆ 1-600-356- CAPA 1-101-006-00 | CITORS | rd | | E-156 |
| | | ◆ 1-600-356- CAPA 1-101-006-00 | 0.047 | rd ¼W | 1% me | E-156 |
| C101-10 | | ◆ 1-600-356- CAPA 1-101-006-00 | 0.047 | | 2, | tal oxide |
| C101-10 R101 R102 | | ◆ 1-600-356- CAPA 1-101-006-00 RES 1-214-174-00 | 0.047 0.047 STORS | 1/4W | 1% me | tal oxide tal oxide |
| C101-10 R101 R102 R103 |)4 | ◆ 1-600-356- CAPA 1-101-006-00 RES 1-214-174-00 1-214-156-00 | 0.047 0.047 0.047 0.047 | 1/4W 1/4W | 1% me | tal oxide tal oxide tal oxide |
| C101-10 R101 R102 R103 R104, 10 |)4 | ● 1-600-356- CAPA 1-101-006-00 RESI 1-214-174-00 1-214-156-00 1-214-178-00 | 0.047 0.047 0.047 0.047 0.047 0.047 | 1/4W 1/4W 1/4W | 1% me 1% me | |
| C101-10 |)4 | ◆ 1-600-356- CAPA 1-101-006-00 RESI 1-214-174-00 1-214-156-00 1-214-178-00 1-214-180-00 | 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 | 1/4W 1/4W 1/4W 1/4W | 1% me 1% me 1% me | tal oxide tal oxide tal oxide tal oxide |
| R101 R101 R102 R103 R104, 10 |)4 | ◆ 1-600-356- CAPA 1-101-006-00 RES 1-214-174-00 1-214-156-00 1-214-180-00 1-214-172-00 | 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 | 1/4W 1/4W 1/4W 1/4W 1/4W | 1% me 1% me 1% me 1% me | tal oxide tal oxide tal oxide tal oxide |

 Items marked """ are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

1/4W

1/4W

Variable/w switch 10k; HUE

Variable/w switch 20k; CHROMA

Variable/w switch 20k; BRIGHTNESS

Variable/w switch 20k; CONTRAST

Variable/w switch 20k; APERTURE

1% metal oxide

1% metal oxide

100k

51k

 The components identified by I in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

R109

R110

1-214-180-00

1-214-173-00

RV101/S101 1-226-545-00

RV102/S102 1-226-546-00

RV103/S103 1-226-546-00

RV104/S104 1-226-546-00

RV105/S105 1-226-546-00

| 13. HB B | OARD | | 45 10 00 | | | |
|-----------|--------------|----------------------------------------|--------------|-----------------------|------------|--------------------------------|
| 10. 110.0 | | 00 HB Board E-155 | 15. JB BO | ♦ 1-600-347-00 | JB Board | E-210 |
| | CAPA | CITORS | | | | |
| C201-203 | 1-101-004-00 | 0.01 | S2501-2503 | 1-552-897-00 | Lever, | UNDER SCAN, DELAY-V, DELAY- |
| | RESI | STORS | | | | |
| RV201 | 1-226-547-00 | Variable, 10k carbon HUE PRESET | | | | |
| RV202 | 1-224-796-00 | Variable, 20k carbon CHROMA PRESET | | | | |
| RV203 | 1-224-796-00 | Variable, 20k carbon BRIGHTNESS PRESET | | | | |
| RV204 | 1-224-796-00 | Variable, 20k carbon CONTRAST PRESET | 16. JC BC | DARD | | |
| | | | 10. 30 80 | • 1-600-348-0 | 0 JC Board | E-208 |
| 14. JA B | OARD | | \$3501, 3502 | 2 1-552-897-00 | Lever, | |
| 14. JA D | | 00 JA Board E-154 | | | | AFC FAST-SLOW |

Lever-slide INPUT

S1503 1-552-267-00

Items marked ""
 "" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | $\frac{D_{\ell}}{dt}$ | escriptio | n Remai | k Ref. No. | Part No. | | Descrip | tion Remark |
|-----------|---------------------|-----------------------|-----------|-------------------------------|------------|--------------|---------|---------|-------------------------------|
| 17. PB | DARD | | | | | | iCs | | |
| | ♦ A-1195-001-A P | Board, cor | nplete | E-204 | | | | | |
| | CAPAC | ITORS | | | IC801-803 | 8-759-145-58 | μPC455 | 8C | |
| C801 | 1-108-626-00 | 0.01 | 100V | 10% mylar | | | | | |
| C802 | 1-129-794-00 | 0.0033 | | 10% film | | | | | |
| C803 | 1-102-228-00 | 470p | 500V | 10% | | C | OILS | | |
| C804 | 1-108-626-00 | 0.01 | 100V | 10% mylar | | | | | |
| C805 | 1-102-244-00 | 220p | 500V | | L801 | 1-407-720-11 | 100μH, | choke | |
| | | - | | | L802 | 1-413-026-21 | | | on (SRC) |
| C806 | 1-108-694-00 | 0.015 | 200V | 10% mylar | L803 | 1-407-365-12 | | , RF ch | |
| C807 | 1-123-093-00 | 22 | 160V | elect | L804 | 1-407-364-21 | 3.3μH, | spook c | hoke |
| C808 | 1-130-066-00 | 14000p | 1.5kV | 3% film | | | | - | |
| C809 | 1-130-067-00 | 45000p | | 3% film | | | | | |
| C810 | 1-130-068-00 | 67000p | 1kV | 3% film | | | | | |
| C811 | 1-108-622-00 | 0.0047 | 100V | 10% mylar | | TRAN | SISTORS | | |
| C812 | 1-123-319-00 | 47 | 16V | elect | | | | | |
| C813 | 1-102-244-00 | 220p | 500V | 10% | Q801, 802 | 8-729-663-47 | 2SC13 | 54 | |
| C814 | 1-102-824-00 | 470p | | 5% | Q803 | 8-765-012-20 | 2SC18 | 11 | |
| C815 | 1-123-319-00 | 47 | 16V | elect | Q804 | 8-729-663-47 | 2SC13 | 54 | |
| | | | | | ⇒ Q805 | 8-719-000-38 | | or, CR3 | AM |
| C816 | 1-108-638-00 | 0.1 | 100V | 10% mylar | | | • | | |
| C817-819 | 9 1-123-319-00 | 47 | 16V | elect | | | | | |
| C820 | 1-123-352-00 | 1 | 50V | elect | | RES | ISTORS | | |
| C821 | 1-108-704-00 | 0.1 | 200V | 10% mylar | | | | | |
| C822 | 1-102-824-00 | 470p | | 5% | R801 | 1-246-515-25 | 56k | 1/4W | carbon |
| | | | | | R802 | 1-246-475-25 | 1.2k | 1/4W | carbon |
| C823, 824 | 1-123-316-00 | 10 | 16V | elect | R803 | 1-246-475-25 | 1.2k | 3/4W | carbon |
| | | | | | R804 | 1-246-481-25 | 2.2k | 1/4W | carbon |
| | | | | | R805 | 1-246-473-25 | 1k | 1/4W | carbon |
| | | | | | R806 | 1-246-489-25 | 4.7k | 1/4W | carbon |
| | DI | ODES | | | R807 | 1-206-680-00 | 4.7k | 2W | metal oxide (nonflammable) |
| D801, 80 | | 1S1555 | | | R808 | 1-212-364-00 | 2.2 | 1W | metal oxide |
| D803 | 8-719-200-02 | 10E2 | | | | | | | (nonflammable) |
| D804 | 8-719-305-15 | GH3F | | | R809 | 1-213-129-00 | 68 | 1W | metal oxide |
| D805-81 | | 1\$1555 | | | | | | | (nonflammable) |
| D811 | 8-719-931-06 | EQB01- | 06 | | R810 | 1-246-497-25 | 10k | 1/4W | carbon |
| D812 | 8-719-200-02 | 10E2 | | | R811 | 1-246-499-25 | 12k | 1/4W | carbon |
| D813 | 8-759-157-40 | μPC574 | | | R812 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| D814 | A 8-719-992-12 | EQA01- | -21R2 | | R813 | 1-246-481-25 | 2.2k | 1/4W | carbon |
| | | | | | R814 | 1-246-537-25 | 470k | 1/4W | carbon |
| • Iten | ns marked "" are no | | | ey are seldor should be ar | P815 816 | 1-246-497-25 | 10k | 1/4W | carbon |

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark A

are critical for safety. Replace only with part number

| Ref. No. | Part No. | | Descript | ion Remark |
|-----------|--------------|---------|----------|----------------|
| R817 | 1-246-481-25 | 2.2k | 1/4W | carbon |
| R818 | 1-214-180-00 | 100k | 1/4W | 1% metal oxide |
| R819 | 1-213-155-00 | 10k | 1W | metal oxide |
| | | | | (nonflammable) |
| R820 | 1-246-498-25 | 11k | 1/4W | carbon |
| R821 | 1-246-473-25 | 1k | 1/4W | carbon |
| R822 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| R823 | 1-214-168-00 | 33k | 1/4W | 1% metal oxide |
| R824 | 1-214-160-00 | 15k | ¾W | 1% metal oxide |
| R825 | 1-246-497-25 | 10k | 1/4W | carbon |
| R826 | 1-202-645-15 | 1M | ½W | composition |
| R827 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| R828 | 1-246-495-25 | 8.2k | 1/4W | carbon |
| R829 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| R830 | 1-246-497-25 | 10k | 1/4W | carbon |
| R831 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| R832 | 1-246-495-25 | 8.2k | 1/4W | carbon |
| R833 | 1-246-487-25 | 3.9k | 1/4W | carbon |
| R834 | 1-246-497-25 | 10k | 1/4W | carbon |
| R835 | 1-202-645-15 | 1M | ½W | composition |
| R836 | 1-246-497-25 | 10k | 1/4W | carbon |
| R837 | 1-246-508-25 | 30k | ⅓W | carbon |
| R838, 839 | 1-246-491-25 | 5.6k | ⅓W | carbon |
| R840 / | A | | 1/4W | metal oxide |
| R841 | A | | 1/4W | metal oxide |
| R842 | 1-246-469-25 | 680 | 1/4W | carbon |
| RV801 | 1-224-921-00 | variabl | e, 20k | HV. ADJ |

MISCELLANEOUS

| T1801 | 1-437-071-00 | Horizontal | Drive, | HDT |
|-------|--------------|------------|--------|-----|
| T1802 | 1-421-366-00 | | | LOT |

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

| Ref. No. | Part No. | | Descripti | on | Remark |
|----------|----------------|----------|-------------|---------|---------------|
| 18. Q BO | ARD | | | | |
| | ♦ A-1275-024-A | Q Board, | complete | | E-306 |
| | CAPA | CITORS | | | |
| C9001 | 1-108-630-00 | 0.022 | 100V | 10% n | ıylar |
| C9002 | 1-121-801-00 | 47 | 16V | elect (| nonpolarized) |
| C9003 | 1-101-004-00 | 0.01 | | | |
| C9004 | 1-102-508-00 | 10p | | (0.5p |) |
| C9005 | 1-123-319-00 | 47 | 16V | elect | |
| C9006 | 1-101-006-00 | 0.047 | | | |
| C9007 | 1-102-525-00 | 68p | | (0.5% |) |
| C9008 | 1-123-316-00 | 10 | 16V | elect | |
| C9009 | 1-123-319-00 | 47 | 16V | elect | |
| C9010 | 1-108-630-00 | 0.022 | 100V | 10% n | nylar |
| C9011 | 1-121-801-00 | 47 | 16V | elect (| nonpolarized) |
| C9012 | 1-101-004-00 | 0.01 | | | |
| C9013 | 1-102-508-00 | 10p | | (0.5p |) |
| C9014 | 1-123-319-00 | 47 | 16V | elect | |
| C9015 | 1-101-006-00 | 0.047 | | | |
| C9016 | 1-102-525-00 | 68p | | 0.5% | |
| C9017 | 1-123-316-00 | 10 | 16V | elect | |
| C9018 | 1-123-319-00 | 47 | 16V | elect | |
| C9019 | 1-108-630-00 | 0.022 | 100V | 10% n | nylar |
| C9020 | 1-121-801-00 | 47 | 16V | elect (| nonpolarized) |
| C9021 | 1-101-004-00 | 0.01 | | | |
| C9022 | 1-102-513-00 | 18p | | (0.5 |) |
| C9023 | 1-123-319-00 | 47 | 16V | elect | |
| C9024 | 1-101-006-00 | 0.047 | | | |
| C9025 | 1-102-525-00 | 68p | | 0.5% | |
| C9026 | 1-123-316-00 | 10 | 16 V | elect | |
| C9027 | 1-123-319-00 | 47 | 16V | elect | |
| C9028 | 1-108-630-00 | 0.022 | 100V | 10% n | nylar |
| C9029 | 1-121-801-00 | 47 | 16V | elect (| nonpolarized) |
| C9030 | 1-101-004-00 | 0.01 | | | |
| C9031 | 1-102-508-00 | 10p | | (0.5p |)) |
| C9032 | 1-123-319-00 | 47 | 16V | elect | |
| C9033 | 1-101-006-00 | 0.047 | | | |
| C9034 | 1-102-525-00 | 68p | | 0.5% | |
| C9035 | 1-101-006-00 | 0.047 | | | |

- Items marked "\u00e3" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items,
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

| Ref. No. | Part No. | D | escriptio | n Remark | Ref. No. | Part No. | | Descrip | tion | Remark |
|----------|--------------|-------|-----------|----------------------|-------------|--------------|-------|---------|--------|----------|
| C9036 | 1-123-319-00 | 47 | 16V | elect | C9066 | 1-101-004-00 | 0.01 | | | |
| C9037 | 1-108-626-00 | 0.01 | | 10% mylar | C9067 | 1-123-320-00 | 100 | 16V | elect | |
| C9038 | 1-108-638-00 | 0.1 | | 10% mylar | C9068 | 1-101-006-00 | 0.047 | | | |
| C9039 | 1-108-630-00 | 0.022 | | 10% mylar | C9069 | 1-123-320-00 | 100 | 16V | elect | |
| C9040 | 1-121-801-00 | 47 | | elect (nonpolarized) | C9070 | 1-101-004-00 | 0.01 | | | |
| C9041 | 1-101-004-00 | 0.01 | | | C9071 | 1-123-320-00 | 100 | 16V | elect | |
| C9042 | 1-102-508-00 | 10p | | (0.5p) | C9072 | 1-101-004-00 | 0.01 | | | |
| C9043 | 1-123-319-00 | 47 | 16V | elect | C9073 | 1-123-320-00 | 100 | 16V | elect | |
| C9044 | 1-101-006-00 | 0.047 | | | C9074 | 1-101-004-00 | 0.01 | | | |
| C9045 | 1-102-525-00 | 68p | | 0.5% | C9075 | 1-101-006-00 | 0.047 | | | |
| C9046 | 1-101-006-61 | 0.047 | 16V | elect | C9076 | 1-101-004-00 | 0.01 | | | |
| C9047 | 1-123-319-00 | 47 | 16V | | C9077 | 1-123-320-00 | 100 | 16V | elect | |
| C9048 | 1-108-626-00 | 0.01 | 100V | 10% mylar | C9078 | 1-101-004-00 | 0.01 | | | |
| C9049 | 1-108-638-00 | 0.1 | 100V | 10% mylar | C9079 | 1-123-320-00 | 100 | 16V | elect | |
| C9050 | 1-108-630-00 | 0.022 | 100V | 10% mylar | C9080 | 1-101-004-00 | 0.01 | | | |
| C9051 | 1-121-801-00 | 47 | 16V | elect (nonpolarized) | C9081 | 1-123-320-00 | 100 | 16V | elect | |
| C9052 | 1-101-004-00 | 0.01 | | | C9082 | 1-101-006-00 | 0.047 | | | |
| C9053 | 1-102-508-00 | 10p | | (0.5p) | C9083 | 1-123-319-00 | 47 | 16V | elect | |
| C9054 | 1-123-319-00 | 47 | 16V | elect | C9084, 9085 | 1-102-888-00 | 150p | | 5% | |
| C9055 | 1-101-006-00 | 0.047 | | | C9086 | 1-101-006-00 | 0.047 | | | |
| C9056 | 1-102-525-00 | 68p | | 0.5% | C9087-9090 | 1-123-319-00 | 47 | 16V | elect | |
| C9057 | 1-101-006-61 | 0.047 | 16V | elect | C9091 | 1-123-320-00 | 100 | 16V | elect | |
| C9058 | 1-123-319-00 | 47 | 16V | elect | C9092 | 1-101-004-00 | 0.01 | | | |
| C9059 | 1-108-626-00 | 0.01 | 100V | 10% mylar | C9095 | 1-102-531-61 | 150p | | 0.5% | |
| C9060 | 1-108-638-00 | 0.1 | 100V | 10% mylar | CV9001 | 1-141-147-XX | 15p | VIDEO . | A RETE | RN LOSS |
| C9061 | 1-101-004-00 | 0.01 | | | | | | COMP | | |
| C9062 | 1-123-320-00 | 100 | 16V | elect | CV9002 | 1-141-138-XX | 8p | VIDEO . | A INPU | Г СОМР |
| C9063 | 1-101-006-00 | 0.047 | | | CV9003 | 1-141-147-XX | 15p | VIDEO : | B RETE | RN LOSS |
| C9064 | 1-101-004-00 | 0.01 | | | | | | COMP | | |
| C9065 | 1-123-320-00 | 100 | 16V | elect | CV9004 | 1-141-138-XX | 8p | VIDEO | B INPU | r comp |
| | | | | | CV9005 | 1-141-147-XX | 15p | EXT SY | NC RET | TERN LOS |
| | | | | | | | | COMP | | |
| | | | | | CV9006 | 1-141-147-XX | 15p | R RETE | RN LOS | SS COMP |
| | | | | | CV9007 | 1-141-138-XX | 8p | R INPU | Г СОМР | |
| | | | | | CV9008 | 1-141-147-XX | 15p | G RETE | RN LO | SS COMP |
| | | | | | CV9009 | 1-141-138-XX | 8p | G INPU | T COMP |) |
| | | | | | CV9010 | 1-141-147-XX | 15p | B RETE | RN LOS | SS COMP |
| | | | | | CV9011 | 1-141-138-XX | 8p | B INPU | г сомр | |

| | Ref. No. | Part No. | | Descrip | tion Remark | Ref. No. | Part No. | | Descrip | otion | Remari |
|---------------|--------------------------|--------------|----------|---------|----------------|----------------|------------------------------|--------------|----------|-----------|-----------|
| | | | ICs | | | R9016 | 1-214-132-00 | 1k | 1/4W | 1% me | tal oxide |
| | IC9001-9003 | 8-759-145-58 | μPC45 | 58C | | R9017 | 1-246-783-00 | 1k | | carbon | |
| | IC9004-9007 | 8-751-300-00 | CX130 | | | R9018 | 1-246-775-00 | 220 | | carbon | |
| | IC9008 | 8-759-901-23 | SN74L | S123N | | R9019 | 1-214-160-00 | 15k | 1/4W | | tal oxide |
| | | | | | | R9020 | 1-246-837-00 | 300 | 7411 | carbon | |
| | | | | | | R9021 | 1-214-148-00 | 4.7k | 1/4W | | tal oxide |
| | | | | | | R9022 | 1 246 702 00 | E (1- | | 1 | |
| | | TRANS | SISTORS | | | R9022 | 1-246-792-00 | 5.6k | | carbon | |
| | | 1117414 | 51010113 | | | R9023 | 1-246-783-00 | 1k | | carbon | |
| | Q9001, 9002 | 8-724-375-01 | 2SC403 | 30 | | | 1-246-852-00 | 5.1k | | carbon | |
| \Rightarrow | Q9003-9005 | | 2SA10 | | | R9025 | 1-246-835-00 | 200 | | carbon | |
| _ | Q9006-9008 | | 2SC403 | | | R9027 | 1-246-791-00 | 4.7k | | carbon | |
| _ | Q9009-9011 | | 2SA10 | | | D0020 | 1 246 881 00 | 100 | | | |
| 7 | Q9009-9011 Q9012-9014 | | | | | R9028 | 1-246-771-00 | 100 | | carbon | |
| | Q9012-9014 | 0-724-373-01 | 2SC403 | | | R9029 | 1-246-854-00 | 7.5k | | carbon | |
| | 00015 0017 | 0.730.610.77 | 20110 | agp | | R9030 | 1-246-797-00 | 15k | | carbon | |
| ⇒ | Q9015-9017 | | 2SA10: | | | R9031 | 1-214-139-00 | 2k | 1/4W | | tal oxide |
| | Q9019,9020 | 8-724-375-01 | 2SC403 | | | R9032 | 1-214-100-00 | 47 | 1/4W | 1% me | tal oxde |
| | Q9021-9023 | | 2SA10: | | | | | | | | |
| \Rightarrow | Q9026 | 8-723-301-01 | 2SK43- | | | R9033 | 1-214-130-00 | 820 | 1/4W | 1% me | tal oxide |
| | Q9027, 9028 | 8-724-375-01 | 2SC403 | 3C | | R9034 | 1-246-783-00 | 1k | | carbon | |
| | | | | | | R9035 | 1-246-775-00 | 220 | | carbon | |
| | Q9029-9031 | | 2SA10 | | | R9036 | 1-214-180-00 | 100k | 1/4W | 1% me | tal xode |
| \Rightarrow | Q9034 | 8-723-301-01 | 2SK43- | | | R9037 | 1-246-837-00 | 300 | | carbon | |
| | Q9035, 9036 | | 2SC403 | | | | | | | | |
| | Q9037-9039 | | 2SA10 | | | R9038 | 1-214-148-00 | 4.7k | 1/4W | 1% me | tal oxide |
| \Rightarrow | Q9042 | 8-723-301-01 | 2SK43- | 11 | | R9039 | 1-246-792-00 | 5.6k | | carbon | |
| | | | | | | R9040 | 1-246-783-00 | 1k | | carbon | |
| | | | | | | R9041 | 1-246-852-00 | 5.1k | | carbon | |
| | | | | | | R9042 | 1-246-835-00 | 200 | | carbon | |
| | | RESI | STORS | | | R9044 | 1-246-791-00 | 4.7k | | carbon | |
| | | | | | | R9045 | 1-246-771-00 | 100 | | carbon | |
| | R9001 | 1-246-783-00 | 1k | | carbon | R9046 | 1-246-854-00 | 7.5k | | carbon | |
| | R9002 | 1-246-775-00 | 220 | | carbon | R9047 | 1-246-797-00 | 15k | | carbon | |
| | R9003 | 1-214-160-00 | 15k | 1/4W | 1% metal oxide | R9048 | 1-214-140-00 | 2.2k | 1/4W | | tal oxide |
| | R9004 | 1-246-837-00 | 300 | | carbon | 107070 | 1-214-140-00 | 4.4K | 74 W | 1 70 IIIe | tai Oxide |
| | R9005 | 1-214-148-00 | 4.7k | 1/4W | 1% metal oxide | R9049 | 1,214,122,00 | 11- | 1/317 | 10/ | tol ouid |
| | | | | /10 11 | | | 1-214-132-00 | 1k | 1/4W | | tal oxide |
| | R9006 | 1-246-792-00 | 5.6k | | carbon | R9050 | 1-246-783-00 | 1k | | carbon | |
| | R9007 | 1-246-783-00 | 1k | | carbon | R9051 | 1-246-775-00 | 220 | 1/327 | carbon | |
| | R9007 | 1-246-852-00 | 5.1k | | carbon | R9052 | 1-214-160-00 | 15k | ⅓W | | tal oxide |
| | R9010 | | 200 | | | R9053 | 1-246-837-00 | 300 | | carbon | |
| | | 1-246-835-00 | | | carbon | 20051 | | 4 == | 2 / 22 2 | . ~ | |
| | R9011 | 1-246-791-00 | 4.7k | | carbon | R9054 R9055 | 1-214-148-00 1-246-792-00 | 4.7k 5.6k | 1/4W | 1% me | tal oxide |
| | R9012 | 1-246-771-00 | 100 | | carbon | R9056 | 1-246-783-00 | 1k | | carbon | |
| | R9013 | 1-246-854-00 | 7.5k | | carbon | R9057 | 1-246-852-00 | 5.1k | | carbon | |
| | R9014 | 1-246-797-00 | 15k | | carbon | R9058 | 1-246-835-00 | 200 | | carbon | |
| | | | 7 th 4p | | | 11/000 | 1-2-0-033-00 | 200 | | Udition | |

| R9960 | R | Ref. No. | Part No. | | Descripti | ion Re | emark | Ref. No. | Part No. | | Descri | ption | Remark |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|--------------|------|-----------|----------|----------|-------------|--------------|----------|--------|--------|-----------|
| R9061 1-246-771-00 100 | R | 9060 | 1-246-791-00 | 4.7k | | carbon | | R9105 | 1-246-792-00 | 5.6k | | carbon | |
| R9062 1-246-84-00 7.5k | | | | | | carbon | | | | | | | |
| R9963 1-246-797-00 15k carbon R9064 1-214-139-00 2k 3W 1% metal oxide R9110 1-246-791-00 4.7k carbon R9065 1-214-100-00 47 3W 1% metal oxide R9112 1-246-771-00 1.00 carbon R9066 1-214-130-00 820 3W 1% metal oxide R9112 1-246-771-00 15k carbon R9068 1-202-473-11 5.6M 3W 5% composition R9113 1-246-797-00 15k carbon R9069 1-246-783-00 1k carbon R9116 1-214-130-00 2k 3W 1% metal oxide R9070 9071 1-246-783-00 1k carbon R9116 1-214-130-00 2k 3W 1% metal oxide R9074 1-246-783-00 1k carbon R9118 1-202-473-11 5.6M 3W 5% composition R9075 1-246-783-00 1k carbon R9118 1-202-473-11 5.6M 3W | | | 1-246-854-00 | | | carbon | | | | | | | |
| R9064 1-214-139-00 2k W W Metal oxide R9110 1-246-791-00 4.7k Carbon R9066 1-214-130-00 820 W W Metal oxide R9112 1-246-834-00 7.5k Carbon R9066 1-214-130-00 1.2k W W Secondorial R9112 1-246-834-00 7.5k Carbon R9068 1-2024-73-11 5.6M W 5% composition R9114 1-214-139-00 2k W W Metal oxide R9115 1-214-139-00 2k W M Metal oxide R9115 1-214-139-00 2k W M Metal oxide R9115 1-214-139-00 2k W M M M M M M M M M | | | 1-246-797-00 | | | carbon | | | | | | | |
| R9066 1-214-130-00 820 | | | | | ½W | 1% metal | loxide | | | | | | |
| R9067 | R | 9065 | 1-214-100-00 | 47 | 1/4W | 1% meta | l oxide | R9111 | 1-246-771-00 | 100 | | carbon | |
| R9068 1-202-473-11 5.6M %W 5% composition carbon R9114 1-214-139-00 2k ½W 1% metal oxide R9070, 9071 1-246-795-00 10k carbon R9115 1-214-100-00 47 ½W 1% metal oxide R9070, 9071 1-246-784-00 1.2k carbon R9116 1-214-134-00 1.2k ½W 1% metal oxide R9074 1-246-81-00 620 carbon R9118 1-202-473-11 5.6M ½W 1% metal oxide R9075 1-246-783-00 1k carbon R9119 1-246-783-00 1k carbon R9076 1-246-775-00 220 carbon R9119 1-246-783-00 1k carbon R9077 1-214-184-00 15k ½W 1% metal oxide R9120, 9121 1-246-783-00 1k carbon R9079 1-214-184-00 4.7k ½W 1% metal oxide R9124 1-246-771-00 100 carbon R9081 1-246-783-00 1k carbon | R | 9066 | 1-214-130-00 | 820 | 1/4W | 1% meta | loxide | R9112 | 1-246-854-00 | 7.5k | | carbon | |
| R9069 1-246-795-00 10k carbon R9115 1-214-100-00 47 4/W 1% metal oxide R9070, 9071 1-246-783-00 1k carbon R9116 1-214-130-00 820 4W 1% metal oxide R9074 1-246-784-00 1.2k carbon R9118 1-202-473-11 5.6M 4W 5% composition R9076 1-246-783-00 1k carbon R9118 1-202-473-11 5.6M 4W 5% composition R9077 1-214-160-00 15k 4W 1% metal oxide 2arbon R9120, 9121 1-246-783-00 1k carbon R9078 1-246-837-00 300 carbon R9124 1-246-841-00 620 carbon R9079 1-214-18-800 4.7k 4W 1% metal oxide R9125 1-246-784-00 1k carbon R9081 1-246-783-00 1k carbon R9126 1-246-781-00 10 carbon R9082 1-246-852-00 5.1k carbon R9 | R | .9067 | 1-214-134-00 | 1.2k | 1/4W | 1% meta | l oxide | R9113 | 1-246-797-00 | 15k | | carbon | |
| R9070, 9071 1-246-783-00 1k carbon R9116 1-214-130-00 820 ½W 1% metal oxide R9072, 9073 1-246-783-00 1k carbon R9117 1-214-134-00 1.2k ½W 1% metal oxide R9074 1-246-841-00 620 carbon R9118 1-202-473-11 5.6M ½W 5% composition R9075 1-246-783-00 1k carbon R9119 1-246-795-00 10k carbon R9076 1-246-775-00 220 carbon R9120, 9121 1-246-783-00 1k carbon R9076 1-246-783-00 1k carbon R9120, 9121 1-246-783-00 1k carbon R9078 1-246-837-00 300 carbon R9124 1-246-841-00 620 carbon R9089 1-246-792-00 5.6k carbon R9125 1-246-717-00 100 carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-717-00 100 carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-717-00 100 carbon R9083 1-246-835-00 200 carbon R9134 1-246-783-00 1k carbon R9085 1-246-717-00 100 carbon R9085 1-246-717-00 100 carbon R9087 1-246-84-00 7.5k carbon R9136, 9137 1-246-717-00 100 carbon R9087 1-246-83-00 2k ½W 1% metal oxide R9090 1-214-100-00 2k ½W 1% metal oxide R9091 1-214-130-00 820 ½W 1% metal oxide R9141 1-246-783-00 1k carbon R9095 1-214-134-00 10k carbon R9095 1-246-783-00 1k carbon R9095 1-246-78 | R | .9068 | 1-202-473-11 | 5.6M | 1/4W | 5% comp | osition | R9114 | 1-214-139-00 | 2k | 1/4W | 1% me | tal oxide |
| R9072, 9073 | R | .9069 | 1-246-795-00 | 10k | | carbon | | R9115 | 1-214-100-00 | 47 | 1/4W | 1% me | tal oxide |
| R9074 | R | 9070, 9071 | 1-246-783-00 | 1k | | carbon | | R9116 | 1-214-130-00 | 820 | 1/4W | 1% me | tal oxide |
| R9075 1-246-783-00 1k carbon R9119 1-246-795-00 10k carbon R9076 1-246-775-00 220 carbon R9120, 9121 1-246-783-00 1k carbon R9077 1-214-160-00 15k W 1/8 metal oxide R9122, 9123 1-246-841-00 620 carbon R9078 1-246-837-00 300 carbon R9124 1-246-841-00 620 carbon R9080 1-246-792-00 5.6k carbon R9125 1-246-771-00 100 carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-783-00 1k carbon R9133 1-246-771-00 100 carbon R9085 1-246-852-00 5.1k carbon R9134 1-246-771-00 100 carbon R9086 1-246-791-00 100 carbon R9136, 9137 1-246-783-00 1k carbon R9087 1-246-854-00 <td>R</td> <td>9072, 9073</td> <td>1-246-784-00</td> <td>1.2k</td> <td></td> <td></td> <td></td> <td>R9117</td> <td>1-214-134-00</td> <td>1.2k</td> <td>1/4W</td> <td>1% me</td> <td>tal oxide</td> | R | 9072, 9073 | 1-246-784-00 | 1.2k | | | | R9117 | 1-214-134-00 | 1.2k | 1/4W | 1% me | tal oxide |
| R9076 1-246-775-00 220 carbon R9120, 9121 1-246-783-00 1k carbon R9077 1-214-160-00 15k W 1% metal oxide R9120, 9121 1-246-784-00 1.2k carbon R9078 1-246-837-00 300 carbon R9124 1-246-841-00 620 carbon R9080 1-246-72-00 5.6k carbon R9125 1-246-783-00 1k carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-852-00 5.1k carbon R9133 1-246-783-00 1k carbon R9083 1-246-835-00 200 carbon R9134 1-246-783-00 1k carbon R9086 1-246-791-00 100 carbon R9134 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-783-00 1k carbon R9088 1-246-797-00 | R | 9074 | 1-246-841-00 | 620 | | | | R9118 | 1-202-473-11 | 5.6M | 1/4W | 5% con | nposition |
| R9077 1-214-160-00 15k | R | 9075 | 1-246-783-00 | 1k | | | | R9119 | 1-246-795-00 | 10k | | carbon | |
| R9078 1-246-837-00 300 carbon R9124 1-246-841-00 620 carbon R9079 1-214-148-00 4.7k ½W 1% metal oxide R9125 1-246-771-00 100 carbon R9080 1-246-792-00 5.6k carbon R9126 1-246-783-00 1k carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-835-00 200 carbon R9131 1-246-771-00 100 carbon R9083 1-246-791-00 4.7k carbon R9134 1-246-783-00 1k carbon R9084 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k ½W 1% metal oxide R9099 1-214-139-00 2k ½W 1% metal oxide R9141 1-214-50-00 5.6k ½W 1% metal oxide | R | 9076 | 1-246-775-00 | 220 | | carbon | | R9120, 9121 | 1-246-783-00 | 1k | | carbon | |
| R9079 1-214-148-00 4.7k ½W 1% metal oxide R9125 1-246-771-00 100 carbon R9080 1-246-792-00 5.6k carbon R9126 1-246-783-00 1k carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-852-00 5.1k carbon R9131-9133 1-246-771-00 100 carbon R9083 1-246-854-00 200 carbon R9134 1-246-771-00 100 carbon R9085 1-246-791-00 4.7k carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-791-00 100 carbon R9139 1-246-771-00 100 carbon R9087 1-246-854-00 7.5k carbon R9141 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9141 1-246-771-00 100 carbon R9091 1-241-130-00 | R | 19077 | 1-214-160-00 | 15k | 1/4W | 1% meta | l oxide | R9122, 9123 | 1-246-784-00 | 1.2k | | carbon | |
| R9080 1-246-792-00 5.6k carbon R9126 1-246-783-00 1k carbon R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-852-00 5.1k carbon R9131-9133 1-246-771-00 100 carbon R9083 1-246-835-00 200 carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-771-00 100 carbon R9136, 9137 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-783-00 1k carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k W 1///> M metal oxide R9089 1-214-139-00 2k W 1//> M metal oxide R9142 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 W 1//> M metal oxide R9143 1-246-788-00 1k carbon | R | 19078 | 1-246-837-00 | 300 | | carbon | | R9124 | 1-246-841-00 | 620 | | carbon | |
| R9081 1-246-783-00 1k carbon R9128, 9129 1-246-771-00 100 carbon R9082 1-246-852-00 5.1k carbon R9131-9133 1-246-771-00 100 carbon R9083 1-246-835-00 200 carbon R9134 1-246-783-00 1k carbon R9085 1-246-791-00 4.7k carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9141 1-214-150-00 5.6k ½W ½ metal oxide R9089 1-214-139-00 2k ½W 1/8 metal oxide R9142 1-246-771-00 100 carbon R9091 1-214-130-00 820 ½W 1/8 metal oxide R9143 1-246-788-00 2.7k carbon R9092 1-214-134-00 1.2k ½W 1/8 metal oxide R9144 1-246-783-00 1k <td< td=""><td>R</td><td>19079</td><td>1-214-148-00</td><td>4.7k</td><td>1/4W</td><td>1% meta</td><td>l oxide</td><td>R9125</td><td>1-246-771-00</td><td>100</td><td></td><td>carbon</td><td></td></td<> | R | 19079 | 1-214-148-00 | 4.7k | 1/4W | 1% meta | l oxide | R9125 | 1-246-771-00 | 100 | | carbon | |
| R9082 1-246-852-00 5.1k carbon R9131-9133 1-246-771-00 100 carbon R9083 1-246-835-00 200 carbon R9134 1-246-783-00 1k carbon R9085 1-246-791-00 4.7k carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9140 1-246-771-00 100 carbon R9089 1-214-139-00 2k ¼W 1½ metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-100-00 47 ¼W 1½ metal oxide R9142 1-246-783-00 1k carbon R9091 1-214-130-00 820 ¼W 1½ metal oxide R9144 1-246-783-00 1k carbon R9092 1-214-134-00 1.2k ¼W 1½ metal oxide R9144 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M ½W 5% composition R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9097, 9098 1-246-841-00 620 carbon R9090 1-246-841-00 620 carbon R9090 1-246-841-00 620 carbon R9090 1-246-831-00 12k carbon R9090 1-246-783-00 1k carbon R9090 1-2246-935-00 Variable, 200 R1EVEL R9000 1-246-783-00 1k Carbon R9000 1-246-783-00 1k Carbon R9000 1-224-935-00 Variable, 200 R1EVEL R9000 1-246-783-00 1k Carbon Variable 200 B1EVEL R9000 1-246-783-00 1k Carbon Variable 200 B1EVEL R9000 1-246-783-00 1k Carbon Variable 200 R1EVEL R9000 1-246-783-00 Variable 200 B1EVEL R9000 1-246-783-00 15k WIDTH R9103 1-246-837-00 300 carbon | R | 19080 | 1-246-792-00 | 5.6k | | carbon | | R9126 | 1-246-783-00 | 1k | | carbon | |
| R9083 1-246-835-00 200 carbon R9134 1-246-783-00 1k carbon R9085 1-246-791-00 4.7k carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k ½W 1% metal oxide R9089 1-214-139-00 2k ½W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-130-00 47 ½W 1% metal oxide R9142 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ½W 1% metal oxide R9144 1-246-783-00 1k carbon R9092 1-214-134-00 1.2k ½W 5% composition R9148 1-246-768-00 56 <td>R</td> <td>19081</td> <td>1-246-783-00</td> <td>1k</td> <td></td> <td>carbon</td> <td></td> <td>R9128, 9129</td> <td>1-246-771-00</td> <td>100</td> <td></td> <td>carbon</td> <td></td> | R | 19081 | 1-246-783-00 | 1k | | carbon | | R9128, 9129 | 1-246-771-00 | 100 | | carbon | |
| R9085 1-246-791-00 4.7k carbon R9136, 9137 1-246-771-00 100 carbon R9086 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k ½W 1% metal oxide R9090 1-214-139-00 2k ½W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-130-00 820 ½W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ½W 1% metal oxide R9144 1-246-788-00 2.7k carbon R9092 1-214-134-00 1.2k ½W 1% metal oxide R9145-9147 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M ½W 5% composition R9148 <td< td=""><td>F</td><td>19082</td><td>1-246-852-00</td><td>5.1k</td><td></td><td>carbon</td><td></td><td>R9131-9133</td><td>1-246-771-00</td><td>100</td><td></td><td>carbon</td><td></td></td<> | F | 19082 | 1-246-852-00 | 5.1k | | carbon | | R9131-9133 | 1-246-771-00 | 100 | | carbon | |
| R9086 1-246-771-00 100 carbon R9139 1-246-783-00 1k carbon R9087 1-246-854-00 7.5k carbon R9140 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k %W 1% metal oxide R9089 1-214-139-00 2k ½W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-130-00 820 ½W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ½W 1% metal oxide R9144 1-246-788-00 1k carbon R9092 1-214-134-00 1.2k ½W 1% metal oxide R9144 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M ½W 5% composition R9148 1-246-768-00 56 carbon R9095, 9096 1-246-783-00 1k carbon RV9001 1-224-93 | F | R9083 | 1-246-835-00 | 200 | | carbon | | R9134 | 1-246-783-00 | 1k | | carbon | |
| R9087 1-246-854-00 7.5k carbon R9140 1-246-771-00 100 carbon R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k 4W 1% metal oxide R9089 1-214-139-00 2k 4W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-100-00 47 4W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 4W 1% metal oxide R9144 1-246-788-00 1k carbon R9092 1-214-134-00 1.2k 4W 1% metal oxide R9145-9147 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M 4W 5% composition R9148 1-246-768-00 56 carbon R9094 1-246-795-00 10k carbon R9149-9154 1-246-783-00 1k carbon R9095 1908 1-246-784-00 1.2k carbon RV900 | F | 39085 | 1-246-791-00 | 4.7k | | carbon | | R9136, 9137 | 1-246-771-00 | 100 | | carbon | |
| R9088 1-246-797-00 15k carbon R9141 1-214-150-00 5.6k ¼W 1% metal oxide R9089 1-214-139-00 2k ¼W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-100-00 47 ¼W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ¼W 1% metal oxide R9143 1-246-783-00 1k carbon R9092 1-214-134-00 1.2k ¼W 1% metal oxide R9144 1-246-763-00 22 carbon R9093 1-202-473-11 5.6M ¼W 5% composition R9145 1-246-763-00 22 carbon R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon RV9001 1-224-935-00 Variable, 200 VIDEO B LEVEL R9099 1-246-783-00 1k carbon RV9002 1-224-935-00 Variable, 200 G LEVEL R9100 1-246-783-00 1k carbon RV9004 1-224-935-00 Variable, 200 G LEVEL R9101 1-246-775-00 220 carbon RV9004 1-224-935-00 Variable 200 B LEVEL R9101 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS R9103 1-246-837-00 300 carbon Carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS R9103 1-246-837-00 300 carbon | F | R9086 | 1-246-771-00 | 100 | | carbon | | R9139 | 1-246-783-00 | 1k | | carbon | |
| R9089 1-214-139-00 2k ½W 1% metal oxide R9142 1-246-771-00 100 carbon R9090 1-214-100-00 47 ½W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ½W 1% metal oxide R9144 1-246-783-00 1k carbon R9092 1-214-134-00 1.2k ½W 1% metal oxide R9148 1-246-763-00 22 carbon R9093 1-202-473-11 5.6M ½W 5% composition R9148 1-246-768-00 56 carbon R9094 1-246-795-00 10k carbon R9149-9154 1-246-783-00 1k carbon R9095 9096 1-246-783-00 1k carbon RV9001 1-224-935-00 Variable, 200 VIDEO B LEVEL R9099 1-246-784-00 620 carbon RV9002 1-224-935-00 Variable, 200 G LEVEL R9101 1-246-783-00 1k carbon RV9004 | F | R9087 | 1-246-854-00 | 7.5k | | carbon | | R9140 | 1-246-771-00 | 100 | | carbon | |
| R9090 1-214-100-00 47 ¼W 1% metal oxide R9143 1-246-788-00 2.7k carbon R9091 1-214-130-00 820 ¼W 1% metal oxide R9144 1-246-783-00 1k carbon R9092 1-214-134-00 1.2k ¼W 1% metal oxide R9145-9147 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M ¼W 5% composition R9148 1-246-768-00 56 carbon R9094 1-246-795-00 10k carbon R9149-9154 1-246-783-00 1k carbon R9095, 9096 1-246-783-00 1k carbon RV9001 1-224-935-00 Variable, 200 VIDEO B LEVEL R9099 1-246-841-00 620 carbon RV9002 1-224-935-00 Variable, 200 R LEVEL R9100 1-246-783-00 1k carbon RV9004 1-224-935-00 Variable, 200 B LEVEL R9102 1-214-160-00 15k ¼W 1% metal oxide RV9005 | F | R9088 | 1-246-797-00 | 15k | | carbon | | R9141 | 1-214-150-00 | 5.6k | 1/4W | 1% me | tal oxide |
| R9091 1-214-130-00 820 ¼W 1% metal oxide R9092 1-214-134-00 1.2k ¼W 1% metal oxide R9144 1-246-783-00 1k carbon R9093 1-202-473-11 5.6M ¼W 5% composition R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon R9100 1-246-783-00 1k carbon R9101 1-246-783-00 1k carbon R9102 1-214-160-00 15k ¼W 1% metal oxide R9103 1-246-837-00 300 carbon | F | R9089 | | | 1/4W | | | R9142 | 1-246-771-00 | 100 | | carbon | |
| R9092 1-214-134-00 1.2k ¼W 1% metal oxide R9145-9147 1-246-763-00 22 carbon R9093 1-202-473-11 5.6M ¼W 5% composition R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9100 1-246-783-00 1k carbon R9101 1-246-775-00 220 carbon R9102 1-214-160-00 15k ¼W 1% metal oxide R9103 1-246-837-00 300 carbon | F | R9090 | | 47 | | | | R9143 | 1-246-788-00 | 2.7k | | carbon | |
| R9093 1-202-473-11 5.6M ¼W 5% composition R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon R9100 1-246-783-00 1k carbon R9101 1-246-775-00 220 carbon R9102 1-214-160-00 15k ¼W 1% metal oxide R9103 1-246-837-00 300 carbon R9148 1-246-768-00 56 carbon R9148 1-246-768-00 56 carbon R9148 1-246-768-00 56 carbon R9148 1-246-768-00 56 carbon R9149-9154 1-246-783-00 1k carbon R9149-9154 1-246-783-00 1k carbon R9101 1-246-783-00 Variable, 200 G LEVEL RV9003 1-224-935-00 Variable, 200 G LEVEL RV9004 1-224-935-00 Variable 200 B LEVEL RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS WIDTH | F | R9091 | | | | | | R9144 | 1-246-783-00 | 1k | | carbon | |
| R9094 1-246-795-00 10k carbon R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon R9100 1-246-783-00 1k carbon R9101 1-246-775-00 220 carbon R9102 1-214-160-00 15k ¼W 1% metal oxide R9103 1-246-837-00 300 carbon R9149-9154 1-246-783-00 1k carbon R9149-9154 1-246-783-00 1k carbon R9149-9154 1-246-783-00 1k carbon R9100 1-224-935-00 Variable, 200 G LEVEL RV9003 1-224-935-00 Variable 200 B LEVEL RV9005 1-224-935-00 Variable 50k RGB CLAMP PULS RV9102 1-214-160-00 15k ¼W 1% metal oxide R9103 1-246-837-00 300 carbon | F | R9092 | 1-214-134-00 | 1.2k | 1/4W | 1% meta | al oxide | R9145-9147 | 1-246-763-00 | 22 | | carbon | |
| R9095, 9096 1-246-783-00 1k carbon R9097, 9098 1-246-784-00 1.2k carbon R9099 1-246-841-00 620 carbon R9100 1-246-783-00 1k carbon R9101 1-246-775-00 220 carbon R9102 1-214-160-00 15k 4W 1% metal oxide R9103 1-246-837-00 300 carbon R9104 1-246-837-00 300 carbon RV9005 1-224-935-00 Variable, 200 G LEVEL RV9006 1-224-935-00 Variable 200 B LEVEL RV9007 1-224-935-00 Variable 200 B LEVEL RV9008 1-224-942-00 Variable 50k RGB CLAMP PULS RV9009 1-246-837-00 300 carbon | | | | | 1/4W | | position | R9148 | 1-246-768-00 | 56 | | carbon | |
| R9097, 9098 1-246-784-00 1.2k carbon RV9001 1-224-935-00 Variable, 200 VIDEO B LEVEL RV9099 1-246-841-00 620 carbon RV9002 1-224-935-00 Variable, 200 R LEVEL RV9003 1-224-935-00 Variable, 200 G LEVEL RV9003 1-224-935-00 Variable, 200 G LEVEL RV9001 1-246-783-00 Ik carbon RV9004 1-224-935-00 Variable, 200 B LEVEL RV9001 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 200 B LEVEL RV9002 1-214-160-00 15k WW 1% metal oxide RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS RV9003 1-246-837-00 300 carbon | | | | | | | | R9149-9154 | 1-246-783-00 | 1k | | carbon | |
| R9099 1-246-841-00 620 carbon RV9002 1-224-935-00 Variable, 200 R LEVEL RV9003 1-224-935-00 Variable, 200 G LEVEL RV9001 1-246-783-00 1k carbon RV9004 1-224-935-00 Variable 200 B LEVEL RV9001 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS RV9003 1-246-837-00 300 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS RV9003 1-246-837-00 300 carbon | | | | | | | | | | | | | |
| R9100 1-246-783-00 1k carbon RV9003 1-224-935-00 Variable, 200 G LEVEL RV9001 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS RV9003 1-246-837-00 300 carbon | | | | | | | | RV9001 | 1-224-935-00 | Variable | , 200 | VIDEO | B LEVEL |
| R9100 1-246-783-00 1k carbon RV9004 1-224-935-00 Variable 200 B LEVEL R9101 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS WIDTH R9103 1-246-837-00 300 carbon |] | R9099 | 1-246-841-00 | 620 | | carbon | | RV9002 | 1-224-935-00 | Variable | , 200 | R LEV | EL |
| R9101 1-246-775-00 220 carbon RV9005 1-224-942-00 Variable 50k RGB CLAMP PULS WIDTH R9103 1-246-837-00 300 carbon | | | | | | | | RV9003 | 1-224-935-00 | Variable | , 200 | G LEV | EL |
| R9102 1-214-160-00 15k 4W 1% metal oxide WIDTH R9103 1-246-837-00 300 carbon | | | | | | | | RV9004 | 1-224-935-00 | Variable | 200 | B LEV | EL |
| R9103 1-246-837-00 300 carbon | | | | | - 1 | | | RV9005 | 1-224-942-00 | Variable | 50k | | |
| | | | | | 1/4W | | al oxide | | | | | WIDT | H |
| R9104 1-214-148-00 4.7k ¹ / ₄ W 1% metal oxide | | | | | | | | | | | | | |
| |] | R9104 | 1-214-148-00 | 4.7k | 1/4W | 1% met | al oxide | | | | | | |

| | | | | | | Ref. No. | | | | tion — | Rem |
|------------|----------------|----------|----------|------------------|-------------|-----------|----------------|-------------|---------|-----------|------|
| 19. T BOA | RD | | | | | 20. U BO | ARD | | | | |
| | • A-1389-247-A | T Board, | complete | 9 | E-256 | | ♦ A-1389-246-A | U Board, co | omplete | | E-3 |
| | CAPA | CITORS | | | | | CAPA | CITORS | | | |
| C6511 | 1-108-638-00 | 0.1 | 100V | 10% | mylar | C401, 402 | 1-102-848-00 | 180p | | 5% | |
| C6512 | 1-101-004-00 | 0.01 | | | | C403 | 1-123-352-00 | 1 | 50V | elect | |
| C6513 | 1-108-638-00 | 0.1 | 100V | 1% | mylar | C404 | 1-123-319-00 | 47 | 16V | elect | |
| C6514 | 1-101-004-00 | 0.01 | | | | C405 | 1-102-848-00 | 180p | | 5% | |
| | | | | | | C406, 407 | 1-108-638-00 | 0.1 | 100V | 10% m | ylar |
| | | | | | | C408 | 1-123-319-00 | 47 | 16V | elect | |
| | | IC | | | | C410, 411 | 1-102-978-00 | 220p | | 5% | |
| | | | | | | C412 | 1-101-004-00 | 0.01 | | | |
| IC6501 | 8-759-901-57 | | SN74 | 4LS15 | 7N | C413, 414 | 1-102-824-00 | 470p | | 5% | |
| | | | | | | C415 | 1-123-352-00 | 1 | 50V | elect | |
| | | | | | | C416 | 1-123-316-00 | 10 | 16V | elect | |
| | TRAN | ISISTOR | | | | C417 | 1-101-004-00 | 0.01 | | | |
| Q6501 | 8-724-375-01 | | 250 | 103C | | C418, 419 | 1-102-518-00 | 33p | | 0.5% | |
| Q6502 | 8-723-301-01 | | | 43-11 | | C420 | 1-102-824-00 | 470p | | 5% | |
| Q6503 | 8-723-306-01 | | | 13-06 | | C421 | 1-123-320-00 | 100 | 16V | elect | |
| Q6504 | 8-723-300-01 | | 2SK4 | | | | | | | | |
| Q6505 | 8-723-301-01 | | | 43-11 | | C422-425 | 1-123-319-00 | 47 | 16V | elect | |
| 20505 | 0-723-300-01 | | ZOK- | ¥3-00 | | C426-429 | 1-123-320-00 | 100 | 16V | elect | |
| | | | | | | C430 | 1-123-319-00 | 47 | 16V | elect | |
| | | | | | | C431 | 1-102-978-00 | 220p | | 5% | |
| | RES | STORS | | | | C432 | 1-102-848-00 | 180p | | 5% | |
| R6501-6508 | 1-246-795-00 | 10k | | carb | on | C433, 434 | 1-102-978-00 | 220p | | 5% | |
| R6509 | 1-246-852-00 | 5.1k | | carb | | C435 | 1-102-892-00 | 22p | | 5% | |
| R6510 | 1-214-134-00 | 1.2k | 1/4W | | netal oxide | | | | | | |
| R6511-6519 | | 100 | 74 44 | carb | | | | | | | |
| R6520 | 1-246-771-00 | 100 | | carb | | | DI | ODES | | | |
| | | | | | | D401 | 8-719-815-55 | 1S1555 | | | |
| R6521 | 1-246-771-00 | 100 | | carb | on | D403 | 8-719-815-55 | 1S1555 | | | |
| R6522 | 1-214-155-00 | 9.1k | 1/4W | 1% 1 | metal oxide | D407 | 8-719-815-55 | 1S1555 | | | |
| R6523 | 1-246-795-00 | 10k | | carb | on | | | | | | |
| R6524 | 1-202-473-00 | 5.6M | 1/4W | con | position | | | | | | |
| R6525 | 1-246-771-00 | 100 | | carb | on | | | ICs | | | |
| R6526 | 1-246-771-00 | 100 | | carb | on | IC401 | 8-759-900-00 | SN74LS | | | |
| R6527 | 1-214-155-00 | 9.1k | 1/4W | 1% 1 | metal oxide | IC402 | 8-759-900-73 | SN74LS | | | |
| R6528 | 1-246-795-00 | 10k | | carb | on | IC403 | 8-759-900-93 | SN74L | | | |
| R6529 | 1-202-473-00 | 5.6M | 1/4W | com | position | IC404-406 | 8-759-900-00 | SN74LS | | | |
| R6530 | 1-246-798-00 | 18k | | carb | on | IC407 | 8-759-901-23 | SN74LS | S123N | | |
| | | | | | | | CC | DILS | | | |
| | | | | | | L401 | 1-407-578-00 | Variable | 470 | ī | |
| | | | | | | LITUI | 1-701-370-00 | V allable | 9/04 | L | |

required for routine service. Some delay should be an-

ticipated when ordering these items.

| Ref. No. | Part No. | 1 | Descripti | on Remark | Ref. No. | Part No. | | Descrip | tion Remark |
|-----------|-----------------------------------------|-----------|-----------|----------------|-----------|--------------|---------|---------|----------------|
| | TRAN | ISISTORS | | | R421 | 1-246-797-00 | 15k | | carbon |
| | THAI | 101010110 | | | R422 | 1-246-799-00 | 22k | | carbon |
| ⇒ Q401 | 8-729-612-77 | 2SA102 | 27R | | | | | | |
| Q402, 403 | 8-724-375-01 | 2SC403 | | | R423 | 1-246-797-00 | 15k | | carbon |
| ⇒ Q404 | 8-729-612-77 | 2SA102 | | | R424 | 1-246-799-00 | 22k | | carbon |
| Q405 | 8-724-375-01 | 2SC403 | | | R425 | 1-246-776-00 | 270 | | carbon |
| ⇒ Q406 | 8-729-612-77 | 2SA102 | | | R426 | 1-246-783-00 | 1k | | carbon |
| Q407, 408 | 8-724-375-01 | 2SC403 | | | R427 | 1-246-783-00 | 1k | | carbon |
| ⇒ Q409 | 8-729-612-77 | 2SA102 | | | | | | | |
| . 6403 | 0 725-012-77 | 25/1102 | 2/10 | | R428 | 1-246-787-00 | 2.2k | | carbon |
| | | | | | R429 | 1-247-049-00 | 470k | | carbon |
| | | | | | R430 | 1-246-777-00 | 330 | | carbon |
| | | | | | R431 | 1-246-795-00 | 10k | | carbon |
| | | | | | R432 | 1-246-780-00 | 560 | | carbon |
| | | | | | | | | | |
| | | | | | R433 | 1-246-783-00 | 1k | | carbon |
| | | | | | R434 | 1-246-841-00 | 620 | | carbon |
| | | | | | R435 | 1-246-789-00 | 3.3k | | carbon |
| | RESI | STORS | | | R436 | 1-246-778-00 | 390 | | carbon |
| | *************************************** | | | | R437 | 1-246-791-00 | 4.7k | | carbon |
| R401 | 1-246-848-00 | 2.4k | | carbon | | | | | |
| R402 | 1-246-791-00 | 4.7k | | carbon | R438 | 1-246-776-00 | 270 | | carbon |
| R403 | 1-214-150-00 | 5.6k | 1/4W | 1% metal oxide | R439 | 1-246-791-00 | 4.7k | | carbon |
| R404 | 1-214-136-00 | 1.5k | 1/4W | 1% metal oxide | R440 | 1-246-795-00 | 10k | | carbon |
| R405 | 1-246-783-00 | 1k | | carbon | R441 | 1-246-791-00 | 4.7k | | carbon |
| | | | | | R443 | 1-214-177-00 | 75k | 1/4W | 1% metal oxide |
| R406 | 1-246-796-31 | 12k | | carbon | | | | | |
| R407 | 1-214-174-00 | 56k | 1/4W | 1% metal oxide | R444, 445 | 1-246-795-00 | 10k | | carbon |
| R408 | 1-214-134-00 | 1.2k | 1/4W | 1% metal oxide | R446 | 1-214-149-00 | 5.1k | 1/4W | 1% metal oxide |
| R409 | 1-246-767-00 | 47 | | carbon | | | | | |
| R410 | 1-214-164-00 | 22k | 1/4W | 1% metal oxide | RV401 | 1-224-940-00 | variabl | le, 10k | H. POSITION |
| | | | ,,,,, | _,,, | RV402 | 1-224-940-00 | variabl | e, 10k | H. HATCH WIDTH |
| R411 | 1-246-787-00 | 2.2k | | carbon | RV403 | 1-224-942-00 | variabl | e, 50k | H.BLK WIDTH |
| R412 | 1-246-767-00 | 47 | | carbon | | | | | |
| R413 | 1-246-797-00 | 15k | | carbon | | | | | |
| R414 | 1-246-767-00 | 47 | | carbon | | | | | |
| R415 | 1-246-788-00 | 2.7k | | carbon | | | | | |
| | | | | | | | | | |
| R416 | 1-246-791-00 | 4.7k | | carbon | | | | | |
| R417 | 1-246-787-00 | 2.2k | | carbon | | | | | |
| R418 | 1-246-795-00 | 10k | | carbon | | | | | |

| | | _ | | | | | | | |
|----------|----------------|--------------|--------|-----------|-----------|--------------|-------|------|-----------|
| 1. V BO | ARD | | | | C339 | 1-101-006-00 | 0.047 | | |
| | ♦ A-1347-001-A | V Board, co | mplete | E-305 | C340 | 1-102-973-00 | 100p | | 5% |
| | | | | | C341 | 1-102-530-00 | 120p | | 5% |
| | CAPA | CITORS | | | C342 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C343 | 1-101-006-00 | 0.047 | | |
| 301 | 1-102-518-00 | 33p | | 0.5% | | | | | |
| 302 | 1-102-514-00 | 22p | | 0.5% | C344 | 1-123-316-00 | 10 | 16V | elect |
| 303 | 1-123-316-00 | 10 | 16V | elect | C345 | 1-101-006-00 | 0.047 | | |
| 304 | 1-108-630-00 | 0.022 | 100V | 10% mylar | C346 | 1-108-626-00 | 0.01 | 100V | 10% mylar |
| 305 | 1-123-319-00 | 47 | 16V | elect | C347 | 1-102-824-00 | 470p | | 5% |
| | | | | | C348 | 1-123-316-00 | 10 | 16V | elect |
| 306 | 1-108-634-00 | 0.047 | 100V | 10% mylar | | | | | |
| 307 | 1-108-626-00 | 0.01 | 100V | 10% mylar | C349 | 1-108-634-00 | 0.047 | 100V | 10% mylar |
| 308 | 1-123-319-00 | 47 | 16V | elect | C350, 351 | 1-102-848-00 | 180p | | 5% |
| 309 | 1-101-006-00 | 0.047 | | | C352 | 1-102-978-00 | 220p | | 5% |
| 310 | 1-102-973-00 | 100p | | 5% | C353 | 1-108-614-00 | 0.001 | 100V | 10% mylar |
| | | | | | C354 | 1-123-316-00 | 10 | 16V | elect |
| 311 | 1-123-319-00 | 47 | 16V | elect | | | | | |
| 312 | 1-101-006-00 | 0.047 | | | C355 | 1-101-006-00 | 0.047 | | |
| 313 | 1-102-820-00 | 330p | | 5% | C356 | 1-123-316-00 | 10 | 16V | elect |
| 314 | 1-123-319-00 | 47 | 16V | elect | C357 | 1-101-006-00 | 0.047 | | |
| 315 | 1-101-006-00 | 0.047 | | | C358 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C359 | 1-101-006-00 | 0.047 | | |
| 317 | 1-123-319-00 | 47 | 16V | elect | | | | | |
| 318 | 1-101-006-00 | 0.047 | | | C360 | 1-123-316-00 | 10 | 16V | elect |
| 319 | 1-123-317-00 | 22 | 16V | elect | C361, 362 | 1-101-006-00 | 0.047 | | |
| 320 | 1-123-351-00 | 0.47 | 50V | elect | C363 | 1-102-824-00 | 470p | | 5% |
| 321 | 1-108-618-00 | 0.0022 | 100V | 10% mylar | C364-368 | 1-102-978-00 | 220p | | 5% |
| | | | | | C369 | 1-123-316-00 | 10 | 16V | elect |
| 322 | 1-123-319-00 | 47 | 16V | elect | | | | | |
| 323 | 1-101-006-00 | 0.047 | | | C370 | 1-101-006-00 | 0.047 | | |
| 324 | 1-102-824-00 | 470p | | 5% | C371 | 1-123-316-00 | 10 | 16V | elect |
| 325 | 1-101-006-00 | 0.047 | | | C372 | 1-101-006-00 | 0.047 | | |
| 326 | 1-123-316-00 | 10 | 16V | elect | C373 | 1-123-316-00 | 10 | 16V | elect |
| | | | | | C374 | 1-101-006-00 | 0.047 | | |
| 327, 328 | 1-102-978-00 | 220p | | 5% | | | | | |
| 329 | 1-101-006-00 | 0.047 | | | C375 | 1-123-316-00 | 10 | 16V | elect |
| 330 | 1-123-316-00 | 10 | 16V | elect | C376 | 1-101-006-00 | 0.047 | | |
| 331 | 1-108-634-00 | 0.047 | 100V | 10% mylar | C377 | 1-123-320-00 | 100 | 16V | elect |
| 332 | 1-108-614-00 | 0.001 | 100V | 10% mylar | C378 | 1-108-630-00 | 0.022 | 100V | 10% mylar |
| | | | | | C379 | 1-123-319-00 | 47 | 16V | elect |
| 333 | 1-102-824-00 | 47 0p | | 5% | C381-383 | 1-102-978-00 | 220p | | 5% |
| 334 | 1-123-316-00 | 10 | 16V | elect | | | | | |
| 335 | 1-101-006-00 | 0.047 | | | | | | | |
| 336, 337 | 1-102-848-00 | 180p | | 5% | | DIC | DDES | | |
| 000,00. | | | | | | | | | |

Items marked """ are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| IC301 | Ref. No. | Part No. | : | Descriptio | $\frac{n}{R}$ | emark | Ref. No. | Part No. | | Desc | crip | tion | Remark |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------|------------|---------------|----------|----------|---------------|------|------|------|--------|-----------|
| C302 | | 1 | Cs | | | | R315 | 1-246-531-00 | 270k | 1, | /4W | carbon | |
| IC302 | IC301 | 8-759-901-22 | SN74L | S122N | | | R316 | 1-246-795-00 | 10k | | | carbon | |
| IC303 | | | SN74L | S04N | | | | | | 5% 1 | | | ition |
| IC304 8-759-901-23 SN74LS123N R319 1-246-788-00 2.7k carbon IC305-307 8-759-115-55 µPC1555C R320 1-246-791-00 4.7k carbon IC308 8-759-145-58 µPC4558C R321 1-246-838-00 360 carbon IC309-311 8-759-900-93 SN74LS93N R322 1-246-85-00 560 carbon IC313 8-759-900-90 SN74LS90N R323 1-246-85-00 5.1k carbon IC314 8-759-900-00 SN74LS00N R324 1-246-800-00 27k carbon IC315 8-759-900-00 SN74LS00N R325 1-246-865-00 62k carbon IC315 8-759-900-00 SN74LS00N R326 1-246-785-00 1.5k carbon R327 1-246-788-00 2.7k carbon R328 1-246-785-00 1.6k carbon R329 1-246-785-00 1.6k carbon R320 1-246-789-00 22k carbon R330 1-246-799-00 22k carbon R331 1-246-799-00 22k carbon R331 1-246-799-00 3.9k carbon R332 1-246-799-00 10k carbon R333 1-246-799-00 10k carbon R334 1-246-799-00 15k carbon R335 1-246-799-00 15k carbon R336 1-246-799-00 22k carbon R337 1-246-799-00 22k carbon R338 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R330 1-246-801-00 33k carbon R331 1-246-801-00 33k carbon R330 1-246-801-00 33k carbon R330 1-246-801-00 33k carbon R330 1-246-801-00 33k carbon R330 1-246-801-00 10k carbon R330 1-246-801-00 10k carbon R331 1-246-801-00 10k carbon R330 1-246-801-00 10k carbon | | | SN74L | S00N | | | | | | | | _ | |
| IC305=307 8-759-115-55 | IC304 | 8-759-901-23 | SN74L | S123N | | | | | 2.7k | | | carbon | |
| IC309=311 8-759-900-93 SN74LS93N R322 1-246-780-00 560 Carbon IC312 8-759-900-00 SN74LS279N R323 1-246-852-00 5.1k Carbon IC313 8-759-900-04 SN74LS00N R324 1-246-8652-00 62k Carbon IC314 8-759-900-04 SN74LS04N R325 1-246-865-00 62k Carbon IC315 8-759-900-00 SN74LS00N R326 1-246-785-00 1.5k Carbon R327 1-246-788-00 2.7k Carbon R328 1-246-795-00 10k Carbon R329 1-246-795-00 1.5k Carbon R329 1-246-795-00 1.5k Carbon R329 1-246-795-00 10k Carbon R320 1-246-799-00 22k Carbon R330 1-246-799-00 3.9k Carbon R331 1-246-799-00 3.9k Carbon R332 1-246-799-00 10k Carbon R333 1-246-799-00 10k Carbon R334 1-246-799-00 10k Carbon R335 1-246-799-00 10k Carbon R336 1-246-799-00 10k Carbon R337 1-246-799-00 15k Carbon R338 1-246-799-00 15k Carbon R339 1-246-799-00 22k Carbon R330 1-246-799-00 22k Carbon R331 1-246-799-00 15k Carbon R331 1-246-799-00 10k Carbon R332 1-246-799-00 10k Carbon R333 1-246-799-00 10k Carbon R334 1-246-799-00 10k Carbon R335 1-246-799-00 10k Carbon R336 1-246-799-00 10k Carbon R337 1-246-799-00 10k Carbon R338 1-246-799-00 10k Carbon R340 1-246-801-00 10k Carbon R341 1-246-801-00 10k Carbon R342 1-214-179-00 91k WW 1% metal oxide R343 1-246-791-00 10k Carbon R344 1-246-791-00 10k Carbon R345 1-214-179-00 91k WW 1% metal oxide R340 1-246-791-00 10k Carbon R341 1-246-791-00 10k Carbon R342 1-214-179-00 91k WW 1% metal oxide R343 1-246-791-00 10k Carbon R344 1-246-791-00 10k Carbon R345 1-214-179-00 91k WW 1% metal oxide R346 1-214-156-00 10k WW 1% metal oxide R345 1-214-179-00 91k WW 1% metal oxide R346 1-214-156-00 10k WW 1% metal oxide R345 1-214-156-00 10k | IC305-307 | 8-759-115-55 | μPC15 | 55C | | | | | 4.7k | | | carbon | |
| IC312 | IC308 | 8-759-145-58 | μPC45 | 58C | | | R321 | 1-246-838-00 | 360 | | | carbon | |
| IC313 8-759-900-00 SN74LS00N R324 1-246-800-00 27k carbon C314 8-759-900-04 SN74LS04N R325 1-246-865-00 62k carbon R325 1-246-865-00 62k carbon R326 1-246-785-00 1.5k carbon R327 1-246-788-00 2.7k carbon R327 1-246-788-00 2.7k carbon R328 1-246-795-00 10k carbon R329 1-246-785-00 1.5k carbon R329 1-246-785-00 1.5k carbon R329 1-246-785-00 1.5k carbon R329 1-246-799-00 22k carbon R330 1-246-799-00 22k carbon R330 1-246-799-00 10k carbon R331 1-246-799-00 10k carbon R331 1-246-799-00 10k carbon R331 1-246-799-00 10k carbon R331 1-246-799-00 10k carbon R332 1-246-799-00 10k carbon R333 1-246-798-00 10k carbon R333 1-246-798-00 18k carbon R335 1-246-798-00 18k carbon R336 1-246-799-00 15k carbon R336 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R340 1-246-801-00 33k carbon R340 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-801-00 100k carbon R341 1-246-791-00 100 carbon R341 1-246-791-00 100k carbon R341 1-246-791-00 100k carbon R341 1-246-791-00 100k carbon R341 1-246-791-00 91k ½W 1% metal oxide R344 1-246-791-00 100k Carbon R345 1-214-179-00 91k ½W 1% metal oxide R344 1-246-791-00 100k Carbon R345 1-214-179-00 91k ½W 1% metal oxide R346 1-214-179-00 91k ½ | IC309-311 | 8-759-900-93 | SN74L | S93N | | | R322 | 1-246-780-00 | 560 | | | carbon | |
| IC314 8-759-900-04 SN74LS04N R325 1-246-885-00 62k carbon R326 1-246-785-00 1.5k carbon R327 1-246-788-00 2.7k carbon R328 1-246-788-00 1.5k carbon R329 1-246-785-00 1.5k carbon R330 1-246-795-00 1.5k carbon R331 1-246-785-00 1.5k carbon R331 1-246-785-00 1.5k carbon R332 1-246-795-00 1.5k carbon R333 1-246-795-00 1.5k carbon R331 1-246-795-00 1.5k carbon R332 1-246-795-00 1.5k carbon R335 1-246-799-00 2.2k carbon R336 1-246-799-00 1.5k carbon R337 1-246-799-00 1.5k carbon R337 1-246-799-00 1.5k carbon R338 1-246-799-00 1.5k carbon R339 1-246-799-00 1.5k carbon R339 1-246-799-00 1.5k carbon R330 1-246-801-00 3.3k carbon R341 1-246-801-00 3.3k carbon R341 1-246-801-00 1.00k carbon R341 1-246-801-00 1.5k WW 1% metal oxide R343 1-246-795-00 1.5k WW 1% metal oxide R344 1-246-795-00 1.5k WW 1% metal oxide R345 1-244-795-00 1.5k WW 1% metal oxide R346 1-244-795-00 1.5k WW 1% metal oxide R347 1-246-801-00 1.5k WW 1% metal oxide R348 1-246-795-00 1.5k WW 1% metal oxide R349 1-246-801-00 1.5k WW 1% metal oxide R340 1-246-801-00 1.5k WW 1% metal oxide R341 1-246-801-00 1.5k WW 1% metal oxide R343 1-246-795-00 1.5k WW 1% metal oxide R344 1-246-795-00 1.5k WW 1% metal oxide R345 1-244-795-00 1.5k WW 1% metal oxide R346 1-244-795-00 1.5k WW 1% metal oxide R340 1-246-801-00 1.5k WW 1% metal oxide R341 1-246-795-00 1.5k WW 1% metal oxide R343 1-246-795-00 1.5k WW 1% metal oxide R344 1-246-795-00 1.5k WW 1% metal oxide R345 1-244-179-00 91k WW 1% metal oxide | IC312 | 8-759-902-79 | SN74L | S279N | | | R323 | 1-246-852-00 | 5.1k | | | carbon | |
| IC315 8-759-900-00 SN74LS00N R326 1-246-785-00 1.5k carbon R327 1-246-788-00 2.7k carbon R328 1-246-795-00 10k carbon R329 1-246-785-00 1.5k carbon R330 1-246-799-00 22k carbon R330 1-246-799-00 22k carbon R331 1-246-783-00 1k carbon R332 1-246-790-00 3.9k carbon R333 1-246-790-00 3.9k carbon R333 334 1-246-790-00 3.9k carbon R335 1-246-790-00 10k carbon R336 1-246-790-00 10k carbon R337 1-246-790-00 18k carbon R338 1-246-790-00 18k carbon R339 1-246-790-00 15k carbon R330 1-246-790-00 15k carbon R331 1-246-790-00 10k carbon R331 1-246-790-00 10k carbon R331 1-246-790-00 10k carbon R331 1-246-790-00 10k carbon R331 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-801-00 10k carbon R341 1-246-801-00 10k carbon R341 1-246-791-00 91k ¼W 1% metal oxide R343 1-246-791-00 10k carbon R344 1-246-791-00 91k ¼W 1% metal oxide R345 1-241-179-00 91k ¼W 1% metal oxide R346 1-241-179-00 91k ¼W 1% metal oxide | IC313 | 8-759-900-00 | SN74L | S00N | | | R324 | 1-246-800-00 | 27k | | | carbon | |
| R327 1-246-788-00 2.7k carbon R328 1-246-795-00 10k carbon R329 1-246-785-00 1.5k carbon R330 1-246-785-00 1.5k carbon R330 1-246-785-00 1.5k carbon R330 1-246-785-00 1.5k carbon R330 1-246-785-00 1.5k carbon R331 1-246-785-00 1.5k carbon R331 1-246-785-00 1.5k carbon R331 1-246-785-00 1.5k carbon R332 1-246-785-00 1.5k carbon R332 1-246-790-00 3.9k carbon R333, 334 1-246-795-00 10k carbon R335 1-246-798-00 18k carbon R336 1-246-798-00 18k carbon R337 1-246-798-00 15k carbon R337 1-246-799-00 22k carbon R338 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-801-00 100k carbon R341 1-246-807-00 100k carbon R341 1-246-771-00 100 carbon R341 1-246-771-00 100 carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-771-00 10k carbon R344 1-246-771-00 10k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide | IC314 | 8-759-900-04 | SN74L | .S04N | | | R325 | 1-246-865-00 | 62k | | | carbon | |
| R328 1-246-795-00 10k carbon R329 1-246-785-00 1.5k carbon R330 1-246-785-00 22k carbon R330 1-246-785-00 1.5k carbon R330 1-246-785-00 22k carbon R331 1-246-783-00 1k carbon R332 1-246-783-00 1k carbon R332 1-246-799-00 3.9k carbon R333 1-246-795-00 10k carbon R335 1-246-795-00 10k carbon R336 1-246-795-00 15k carbon R337 1-246-799-00 22k carbon R338 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 10k carbon R340 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100 carbon | IC315 | 8-759-900-00 | SN74L | S00N | | | R326 | 1-246-785-00 | 1.5k | | | carbon | |
| R329 1-246-785-00 1.5k carbon R330 1-246-799-00 22k carbon R331 1-246-783-00 1k carbon R331 1-246-790-00 3.9k carbon R331 1-246-790-00 3.9k carbon R332 1-246-790-00 3.9k carbon R333 1-246-790-00 3.9k carbon R335 1-246-790-00 10k carbon R336 1-246-798-00 18k carbon R337 1-246-798-00 18k carbon R338 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R330 1-246-800-00 100k carbon R340 1-246-800-00 100k carbon R341 1-246-807-00 10k carbon R341 1-246-791-00 91k ¼W 1% metal oxide R344 1-246-791-00 91k ¼W 1% metal oxide R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide | | | | | | | R327 | 1-246-788-00 | 2.7k | | | carbon | |
| TRANSISTORS R330 1-246-799-00 22k carbon R331 1-246-783-00 1k carbon R332 1-246-789-00 3.9k carbon R332 1-246-799-00 3.9k carbon R333, 334 1-246-795-00 10k carbon R335 1-246-795-00 10k carbon R336 1-246-797-00 15k carbon R337 1-246-797-00 15k carbon R338 1-246-797-00 15k carbon R339 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 15k carbon R339 1-246-799-00 10k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R343 1-246-71-00 100 carbon R343 1-246-71-00 100 carbon R344 1-246-795-00 10k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide | | | | | | | R328 | 1-246-795-00 | 10k | | | carbon | |
| R331 1-246-783-00 1k carbon | | | | | | | R329 | 1-246-785-00 | 1.5k | | | carbon | |
| Q301, 302 8-724-375-01 2SC403C R332 1-246-790-00 3.9k carbon Q305-311 8-724-375-01 2SC403C R333, 334 1-246-795-00 10k carbon Q305-311 8-724-375-01 2SC403C R335 1-246-798-00 18k carbon Q312-314 8-729-612-77 2SA1027R R336 1-246-797-00 15k carbon Q315-319 8-724-375-01 2SC403C ⇒ Q320, 321 8-729-612-77 2SA1027R R338 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 carbon | | | | | | | R330 | 1-246-799-00 | 22k | | | carbon | |
| Q301, 302 8-724-375-01 2SC403C ⇒ Q303, 304 8-729-612-77 2SA1027R Q305-311 8-724-375-01 2SC403C ⇒ Q312-314 8-729-612-77 2SA1027R Q315-319 8-724-375-01 2SC403C ⇒ Q320, 321 8-729-612-77 2SA1027R R336 1-246-797-00 15k carbon R337 1-246-797-00 15k carbon R338 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-771-00 100 carbon R344 1-246-795-00 10k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-246-795-00 10k carbon R347 1-246-795-00 10k carbon R348 1-246-795-00 10k carbon R349 1-246-795-00 10k carbon R340 1-246-795-00 10k carbon R341 1-246-795-00 10k carbon R344 1-246-795-00 10k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide | | TRAN | SISTORS | | | | | | | | | | |
| ⇒ Q303, 304 8-729-612-77 2SA1027R R333, 334 1-246-795-00 10k carbon Q305-311 8-724-375-01 2SC403C R335 1-246-798-00 18k carbon ⇒ Q312-314 8-729-612-77 2SA1027R R336 1-246-797-00 15k carbon R337 1-246-799-00 22k carbon R338 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ½W 1% metal oxide R303 1-246-788-00 2.7k carbon R345 1-214-179-00 91k ½W 1% metal oxide R304 1-246-791-00 4.7k carbon R346 1-214-156-00 10k ½W 1% metal oxide R305 1-246-836-00 240 carbon R346 1-214-156-00 10k ½W 1% metal oxide <td></td> | | | | | | | | | | | | | |
| Q305−311 8-724-375-01 2SC403C ⇒ Q312−314 8-729-612-77 2SA1027R Q315−319 8-724-375-01 2SC403C ⇒ Q320, 321 8-729-612-77 2SA1027R R336 1-246-799-00 15k carbon R337 1-246-799-00 22k carbon R338 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R341 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon R346 1-214-156-00 10k ¼W 1% metal oxide R347 1-246-795-00 10k carbon R348 1-246-795-00 10k carbon R349 1-246-795-00 10k carbon R340 1-246-795-00 10k ¼W 1% metal oxide R341 1-246-795-00 10k carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-795-00 10k carbon R344 1-246-795-00 10k ¼W 1% metal oxide R345 1-214-179-00 91k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide | | | | | | | | | | | | | |
| → Q312-314 8-729-612-77 2SA1027R R336 1-246-797-00 15k carbon → Q315-319 8-724-375-01 2SC403C R337 1-246-799-00 22k carbon R338 1-246-799-00 15k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100 carbon R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ½W 1% metal oxide R303 1-246-788-00 2.7k carbon R345 1-214-179-00 91k ½W 1% metal oxide R304 1-246-791-00 4.7k carbon R346 1-214-156-00 10k ½W 1% metal oxide R305 1-246-836-00 240 carbon R346 1-214-156-00 10k ½W 1% metal oxide | | | | | | | | | | | | | |
| Q315−319 8-724-375-01 2SC403C R337 1-246-799-00 22k carbon R338 1-246-799-00 15k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R541 1-246-807-00 100k carbon R341 1-246-71-00 100 carbon R343 1-246-771-00 100 carbon R344 1-246-795-00 10k carbon R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | - | | | | | | | | | | | | |
| RESISTORS R337 1-246-799-00 22k carbon R338 1-246-799-00 15k carbon R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R343 1-246-771-00 100 carbon R343 1-246-771-00 100 carbon R344 1-246-795-00 10k carbon R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | _ | | | | | | R336 | 1-246-797-00 | 15k | | | carbon | |
| R338 1-246-797-00 15k carbon R339 1-246-799-00 22k carbon R340 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | Q313-319 | 0-724-373-01 | 23040 | 30 | | | D 227 | 1-246-799-00 | 22k | | | carbon | |
| R339 1-246-799-00 22k carbon R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 91k ¼W 1% metal oxide R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | ⇒ O320 321 | 8-729-612-77 | 2SA10 | 27R | | | | | | | | | |
| R340 1-246-801-00 33k carbon R341 1-246-807-00 100k carbon R341 1-246-807-00 100k carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R344 1-246-795-00 10k carbon R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | 2020, 321 | 0.230121, | | | | | | | | | | | |
| R341 1-246-807-00 100k carbon R342 1-214-179-00 91k ¼W 1% metal oxide R343 1-246-771-00 100 carbon R301 1-214-149-00 5.1k ¼W 1% metal oxide R303 1-246-788-00 2.7k carbon R304 1-246-791-00 4.7k carbon R305 1-246-836-00 240 carbon | | | | | | | | | | | | | |
| R301 1-214-149-00 5.1k ¼W 1% metal oxide R304 1-246-791-00 10k carbon R305 1-246-836-00 240 R306 R348 1-246-791-00 10k Carbon R348 1-214-156-00 10k 1% metal oxide R349 1-246-836-00 240 Carbon R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 Carbon | | | | | | | | | | | | | |
| R301 1-214-149-00 5.1k ¼W 1% metal oxide R304 1-246-791-00 10k carbon R305 1-246-836-00 240 R306 R348 1-246-791-00 10k Carbon R348 1-214-156-00 10k 1% metal oxide R349 1-246-836-00 240 Carbon R346 1-214-156-00 10k ¼W 1% metal oxide R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 Carbon | | RES | ISTORS | | | | D 2/12 | 1-214-179-00 | 011 | 1/, | w | 1% me | tal oxide |
| R301 1-214-149-00 5.1k ¼W 1% metal oxide R344 1-246-795-00 10k carbon R303 1-246-788-00 2.7k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R304 1-246-791-00 4.7k carbon R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 carbon | | 1120 | 1010110 | | | | | | | /4 | ** | | |
| R303 1-246-788-00 2.7k carbon R345 1-214-179-00 91k ¼W 1% metal oxide R304 1-246-791-00 4.7k carbon R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 carbon | R301 | 1-214-149-00 | 5.1k | 1/4W | 1% meta | ıl oxide | | | | | | | |
| R304 1-246-791-00 4.7k carbon R346 1-214-156-00 10k ¼W 1% metal oxide R305 1-246-836-00 240 carbon | | | | | | | | | | 1/4 | W | | |
| R305 1-246-836-00 240 carbon | | | | | | | | | | | | | |
| | | | | | | | 100 | 1 21 1 100 00 | 10.0 | , , | | 2,0 | |
| K300 1-240-171-00 13K Calbon | R306 | 1-246-797-00 | 15k | | carbon | | | | | | | | |
| R307 1-246-783-00 1k carbon | R307 | 1-246-783-00 | 1k | | carbon | | | | | | | | |
| R308 1-246-759-00 10 carbon | | | | | carbon | | | | | | | | |
| R309 1-246-837-00 300 carbon | | | | | carbon | | | | | | | | |
| R310 1-246-797-00 15k carbon | | | | | carbon | | | | | | | | |
| R311 1-246-531-00 270k %W carbon | | | | 1/4W | | | | | | | | | |
| R312 1-246-783-00 1k carbon | R312 | 1-246-783-00 | 1k | | carbon | | | | | | | | |
| R313 1-246-785-00 1.5k carbon | | | | | carbon | | | | | | | | |
| R314 1-246-783-00 1k carbon | | | 1k | | carbon | | | | | | | | |

| Ref. No. | Part No. | 1 | Description | n Remark |
|-----------|--------------|------------|-------------|------------------|
| | | | | |
| R347 | 1-214-173-00 | 51k | 1/4W | 1% metal oxide |
| R348 | 1-246-795-00 | 10k | | carbon |
| R349 | 1-214-140-00 | 2.2k | 1/4W | 1% metal oxide |
| R350 | 1-214-148-00 | 4.7k | ¼W | 1% metal oxide |
| R351, 352 | 1-246-795-00 | 10k | | carbon |
| R353 | 1-246-860-00 | 24k | | carbon |
| R354 | 1-246-793-00 | 6.8k | | carbon |
| R355 | 1-246-797-00 | 15k | | carbon |
| R356 | 1-246-799-00 | 22k | | carbon |
| R357 | 1-246-776-00 | 270 | | carbon |
| | | | | |
| R358 | 1-214-175-00 | 62k | 1/4W | 1% metal oxide |
| R359 | 1-246-797-00 | 15k | | carbon |
| R360 | 1-246-799-00 | 22k | | carbon |
| R361 | 1-246-795-00 | 10k | | carbon |
| R362 | 1-246-797-00 | 15k | | carbon |
| R363 | 1-246-799-00 | 22k | | carbon |
| R364 | 1-246-797-00 | 15k | | carbon |
| R365 | 1-246-799-00 | 22k | | carbon |
| R366 | 1-246-797-00 | 15k | | carbon |
| R367 | 1-246-799-00 | 22k | | carbon |
| R368 | 1-246-797-00 | 15k | | carbon |
| R369 | 1-246-799-00 | 22k | | carbon |
| R370 | 1-246-776-00 | 270 | | carbon |
| R371 | 1-214-145-00 | 3.6k | 1/4W | 1% metal oxide |
| R372 | 1-214-148-00 | 4.7k | | 1% metal oxide |
| R373 | 1-214-146-00 | 3.9k | 1/4W | 1% metal oxide |
| R374 | 1-246-795-00 | 10k | | carbon |
| R375 | 1-246-799-00 | 22k | | carbon |
| R376 | 1-214-149-00 | 5.1k | | |
| R377 | 1-246-797-00 | | | 1% metal oxide |
| R378 | 1-246-797-00 | 15k 18k | | carbon carbon |
| D 270 | 1 246 808 00 | 1.00 | | |
| R379 | 1-246-797-00 | 15k | | carbon |
| R380 | 1-246-799-00 | 22k | | carbon |
| R381 | 1-246-798-00 | 18k | | carbon |
| R382 | 1-246-797-00 | 15k | | carbon |
| R383 | 1-246-799-00 | 22k | (| carbon |
| R384 | 1-246-797-00 | 15k | (| carbon |
| R385 | 1-246-799-00 | 22k | (| carbon |
| R386 | 1-246-798-00 | 18k | (| carbon |
| RV301 | 1-224-941-00 | variable, | 20k F | H. DL |
| RV302 | 1-224-941-00 | variable | | H.P WIDTH |
| RV303 | 1-224-940-00 | variable, | 10k 1 | 4H. DL |

| Ref. No. | Part No. | Description | Remark |
|-------------|---------------------|---------------------|--------|
| 22. W BOARI | | | |
| | 1-600-345-00 | W Board | E-351 |
| | CAPACIT | rors | |
| C910-915 | 1-102-851-21 | Capacitor, 15p cera | mic |
| | | | |
| 23. XA BOAI | ◆ 1-600-349-00 | XA Board | E-20 |
| | DIOD | E | |
| > LED4501 | 8-719-803-07 | TLF | 306 |
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Items marked "\"\"\" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| 24. XB BO | | TOTAL TITLES | 25. | YA BOAF | RD | | |
|------------|---------------------|--------------------------------|-------|---------|-------------------|---------|-------|
| | ♦ 1-600-350- | -00 XB Board E-202 | | | ● 1-600-359-00 YA | Board | E-157 |
| | CAPA | CITORS | | | DIODE | | |
| C5501 | 1-101-006-00 | 0.047 | D101 | | 8-719-900-92 | GL9 | PR 20 |
| C5502 | 1-123-316-00 | 10 16V elect | | | | | |
| | | | | | | | |
| | | ICs | 26. | YB BOAF | RD | | |
| C5501 | 8-759-900-47 | SN74LS47N | | | ♦ 1-600-360-00 YE | B Board | E-151 |
| | | | | | DIODE | | |
| | | | D102 | | 8-719-909-20 | GL9 | NG2 |
| | RESIS | TORS | | | | | |
| R5501-5507 | 1-246-780-00 | 560 carbon | | | | | |
| 25508-5511 | 1-246-795-00 | 10k carbon | | | | | |
| R5512 | 1-246-782-00 | 820 carbon | | | | | |
| R5514 | 1-246-791-00 | 4.7k carbon | | | | | |
| | | | | | | | |
| | MISCEL | LANEOUS | | | | | |
| S5501 | 1-552-898-00 | Toggle, tally remote/manual so | elect | | | | |
| S5502 | 1-552-102-51 | Rotary, tally figure set | | | | | |

[•] Items marked "" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Description | Remark | Ref. No. |
|-------------|-----------------------|--------------------------------|---------|----------|
| 27 | . MISCELLANEO | OUS (Chassis parts) | | 28. PAG |
| | | , | | |
| C901-906 | 1-102-050-00 | Capacitor, 0.01 500V ceramic | 2 | A-147 |
| C907 | 1-102-249-00 | Capacitor, 680P 2kV ceramic | 3 | |
| C908 | 1-130-031-00 | Capacitor, 0.22 400V 5% | | |
| | | polypropyle | ene | |
| CNJ902 | 1-508-382-00 | Connector, TALLY-REMOTE | E-352 | |
| CNP901 | <u>1-509-546-00</u> | Connector, AC IN | E-353 | |
| F903 | <u>1-532-259-00</u> | Fuse,1.6AT | E 202 | 1 |
| F-903 | 1-532-557-00 | Fuse, 3.15A (normal) | E-303 | |
| L901, 902 | 1-425-922-41 | Coil, degaussing; DGC | E-55 | |
| L-903 | <u>1-452-214-21</u> | Neck Ass'y | E-56 | |
| L-905-1,-2, | -3/1-451-160-31 | Deflection Yoke, DY, CY | E-57 | |
| Q901-903 | 8-729-311-42 | Transistor, 2SC1114 | | |
| Q904, 905 | 8-729-301-32 | Transistor, 2SC1413A | | |
| , | | | | |
| R901 | 1-217-183-00 | Resistor, 2.7 15W wirewound | | |
| | | (nonflammal | ole) | |
| R902 | 1-202-680-00 | Resistor, 4.7k 2W composition | | |
| | | (pulse resista | ince) | |
| S901 | 1-552-895-00 1 | Switch, pushbutton; POWER | E-152 | |
| S902 | <u>1-552-896-00</u> | Switch, pushbutton; DEGAUSI | E E-153 | |
| S903 | <u>1-526-572-00</u> | Socket; VOLTAGE SELECTOR | R E-301 | |
| T901 | <u>1-446-358-00</u> | Transformer, power | E-308 | |
| T902 | <u>1-439-175-00</u> | Transformer, flyback;FBT | E-206 | |
| | | | | |
| V901 | 1 8-738-311-05 | Picture Tube, 330VB22 | E-58 | |
| V901 | 18-738-315-05 | Picture Tube, M30JBC20X | E-58 | |
| | | | | |
| | 1-452-032-00 | Magnet, disk; 10mm dia | E-53 | |
| | 1-452-094-00 | Magnet, rotatable disk, 15mm d | ia E-54 | |
| | 1-452-146-00 | Magnet, BMC | E-51 | |
| | ↑ 1-453-081-00 | High Voltage Block, HV block | E-207 | |
| | 1-509-131-00 | Connector, BNC | E-354 | |
| | 1-509-437-22 | Socket, power transistor | E-205 | |
| | 1 522 140 00 | Welder Con- | Face | |
| | 1-533-148-00 | Holder, fuse | E-302 | |

28. PACKING MATERIALS AND ACCESSORIES

A-1475-425-A Board Block Ass'y, Z

Part No.

| 1-508-171-00 | Connect | tor, 10p (for TALLY-REMOTE) |
|---------------------|---------|-----------------------------|
| <u>1-532-259-00</u> | Fuse, | 1.6AT |
| <u>1-532-557-00</u> | Fuse, | 3.15A (normal) |
| <u>1-551-812-00</u> | Cord,po | wer |
| | | |

Description

Remark

| 3-701-613-00 | Bag, polyethylene (for screw or fuse) |
|----------------------|---------------------------------------|
| 3-701-623-00 | Bag, polyethylene (for Z board) |
| 3-701-629-00 | Bag, polyethylene (for power cord) |
| 3-701-630-00 | Bag, polyethylene (for manual) |
| 3-703-159-00 | Label, destination |
| 3-701-730-00 | Bag, polyethylene; IBM card |
| | |
| | |
| 4-335-988-00 | Label (B), voltage indication |
| 4 -335-998-00 | Rail (L), guide |
| 4 -335-999-00 | Bracket, guide rail |
| 4-337-201-00 | Bag, protection |
| 4-349-004-01 | carton |
| 4-337-204-00 | Cushion, lower |
| 4-337-205-00 | Cushion, upper |
| 4-337-207-02 | Carton, accessory |
| 4 -337-214-00 | Nut, plate |
| 4-349-002-13 | Manual, operation and maintenance |
| 4-494-858-21 | Card, warranty |
| 7-623-212-22 | SW5 |
| 7-682-160-13 | Screw, +P4x6 |
| 7-682-179-01 | Screw, +P5x20 |
| 7-688-005-01 | W5, Small |
| 7-700-731-03 | Driver, VR adjustment |
| | |

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: There are two kinds of picture tube used for the following serial numbered units.

Serial No. up to 1,5000: 330-VB22

Serial No. 1,5001 and later: M30JBC20X

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.